

Exam

Name \_\_\_\_\_

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Work the chain multiplication.

1)  $7 \cdot 8 \cdot 6$  1) \_\_\_\_\_

- A) 346 B) 392 C) 336 D) 21

Answer: C

Diff: 0 Type: BI

Solve the problem.

2) David's company has to ship 2200 boxes of sprinklers. 4 truckloads all containing the same number of boxes were delivered. How many boxes were shipped in each truck? 2) \_\_\_\_\_

- A) 550 boxes B) 50 boxes C) 555 boxes D) 55 boxes

Answer: A

Diff: 0 Type: BI

Add.

3) 3) \_\_\_\_\_

$$\begin{array}{r} 7387 \\ 132 \\ 57 \\ + 3056 \\ \hline \end{array}$$

- A) 9532 B) 10,632 C) 9622 D) 10,522

Answer: B

Diff: 0 Type: BI

Subtract.

4) 4) \_\_\_\_\_

$$\begin{array}{r} 821 \\ - 98 \\ \hline \end{array}$$

- A) 623 B) 919 C) 723 D) 721

Answer: C

Diff: 0 Type: BI

Determine whether the number is divisible by 2, 3, 4, 5, 6, 7, 8, 9, and/or 10.

5) 40 5) \_\_\_\_\_

- A) 2, 4, 5 B) 2, 4, 5, 8 C) 2, 4, 5, 8, 10 D) 2, 4, 5, 10

Answer: C

Diff: 0 Type: BI

Multiply.

6)  $(53)(326)$  6) \_\_\_\_\_

- A) 17,378 B) 17,268 C) 17,278 D) 17,288

Answer: C

Diff: 0 Type: BI

Solve the problem.

- 7) This table shows the number of lawns mowed during one week by one of the Hill Landscaping Company crews.

7) \_\_\_\_\_

Day of the Week	Number of Lawns Mowed
Sunday	0
Monday	8
Tuesday	6
Wednesday	10
Thursday	7
Friday	9
Saturday	8

How many more lawns were mowed on Wednesday than on Thursday?

- A) Can't answer this question using this table.
- B) 1 lawns
- C) 3 lawns
- D) 5 lawns

Answer: C

Diff: 0 Type: BI

Check the addition. If the answer is incorrect, find the correct answer.

8)

8) \_\_\_\_\_

$$\begin{array}{r} 9597 \\ 351 \\ 19 \\ 892 \\ + 4692 \\ \hline 15,551 \end{array}$$

- A) Incorrect; should be 15,451
- C) Correct

- B) Incorrect; should be 14,551
- D) Incorrect; should be 15,661

Answer: C

Diff: 0 Type: BI

Subtract.

9)

9) \_\_\_\_\_

$$\begin{array}{r} 62 \\ - 49 \\ \hline \end{array}$$

- A) 111
- B) 13
- C) 73
- D) 9

Answer: B

Diff: 0 Type: BI

Divide. If the division is not possible, write "undefined."

10)  $\frac{3}{1}$

10) \_\_\_\_\_

- A) Undefined
- B) 1
- C) 3
- D) 0

Answer: C

Diff: 0 Type: BI

Multiply.

11)

$$\begin{array}{r} 36,557 \\ \times \quad 3 \\ \hline \end{array}$$

11) \_\_\_\_\_

A) 109,771

B) 109,651

C) 109,661

D) 109,671

Answer: D

Diff: 0 Type: BI

Add.

12) 2213 + 1415

A) 3664

B) 3727

C) 3628

D) 3569

12) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI

Write the number as indicated.

13) An ocean covers approximately three million, seven hundred sixty-three thousand, nine hundred square miles. Write the number using digits.

13) \_\_\_\_\_

A) 3,000,763,900

B) 3,763,009

C) 3,763, 090

D) 3,763,900

Answer: D

Diff: 0 Type: BI

Solve the problem.

14) Last night 54 fishing boats each hauled in 79 tons of fish. What was the total catch for the night?

14) \_\_\_\_\_

A) 4266 tons

B) 141 tons

C) 4274 tons

D) 133 tons

Answer: A

Diff: 0 Type: BI

Find the total cost.

15) 1117 sheets of plywood  
at \$7 per sheet

15) \_\_\_\_\_

A) \$1124

B) \$1110

C) \$7819

D) \$160

Answer: C

Diff: 0 Type: BI

Subtract.

16)

$$\begin{array}{r} 6955 \\ - 4175 \\ \hline \end{array}$$

16) \_\_\_\_\_

A) 2670

B) 6780

C) 2770

D) 2780

Answer: D

Diff: 0 Type: BI

Find the perimeter.

17) The sides of a triangle are 494 feet, 360 feet, and 513 feet.

17) \_\_\_\_\_

A) 2734 ft

B) 1007 ft

C) 1708 ft

D) 1367 ft

Answer: D

Diff: 0 Type: BI

Work the chain multiplication.

18)  $(8)(0)(2)$

A) 0

B) 2

C) 10

D) 16

18) \_\_\_\_\_

Answer: A

Diff: 0 Type: BI

Add.

19)  $21,131 + 21,153$

A) 42,284

B) 33,284

C) 42,646

D) 42,644

19) \_\_\_\_\_

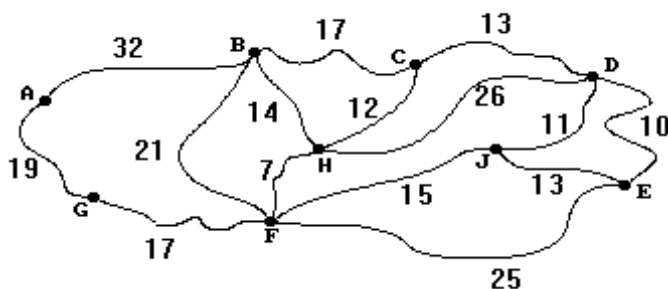
Answer: A

Diff: 0 Type: BI

Use the map to find the shortest route between the given locations.

20) A to H

20) \_\_\_\_\_



A) 60 miles

B) 46 miles

C) 61 miles

D) 43 miles

Answer: D

Diff: 0 Type: BI

Solve the problem.

21) The school library has an inventory of 72,638 books. If 9991 have been checked out, how many are still on the shelves?

21) \_\_\_\_\_

A) 52,656 books

B) 82,629 books

C) 62,647 books

D) 62,547 books

Answer: C

Diff: 0 Type: BI

Use addition, subtraction, or multiplication to solve the problem.

22) A company pays every employee \$7 for each item he or she produces. If there are 28 employees and they make an average of 95 items, what is the total amount paid to the workers?

22) \_\_\_\_\_

A) \$3325

B) \$861

C) \$18,620

D) \$130

Answer: C

Diff: 0 Type: BI

Write the number in words.

23) 8,300,775

23) \_\_\_\_\_

- A) eighty-three thousand, seven hundred seventy-five
- B) eight million, three hundred thousand, seven hundred seventy-five
- C) eight million, thirty thousand, seven hundred seventy-five
- D) eight million, three thousand, seven hundred seventy-five

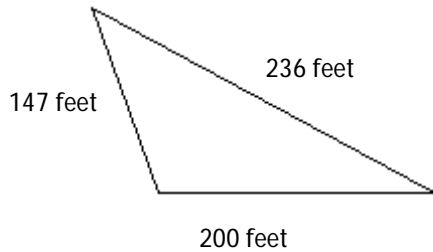
Answer: B

Diff: 0 Type: BI

Find the perimeter.

24) Joe wants to frame his garden with pine lumber. How feet of lumber will he need?

24) \_\_\_\_\_



- A) 383 ft
- B) 47,583 ft
- C) 583 ft
- D) 573 ft

Answer: C

Diff: 0 Type: BI

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

25) 
$$\begin{array}{r} 26,678 \text{ R2} \\ 9 \overline{) 240,104} \end{array}$$

25) \_\_\_\_\_

- A) Correct
- B) Incorrect; should be 26,679 R2
- C) Incorrect; should be 26,678 R4
- D) Incorrect; should be 26,678 R3

Answer: A

Diff: 0 Type: BI

Divide. If the division is not possible, write "undefined."

26)  $24 \div 3$

26) \_\_\_\_\_

- A) 8
- B) 7 R2
- C) 7 R3
- D) 9

Answer: A

Diff: 0 Type: BI

Solve the problem.

27) Jim bicycled 371 miles in January and 760 miles in February. How many miles did he bicycle?

27) \_\_\_\_\_

- A) 1121 miles
- B) 1141 miles
- C) 1131 miles
- D) 1031 miles

Answer: C

Diff: 0 Type: BI

Add.

28)

$$\begin{array}{r} 220 \\ + 739 \\ \hline \end{array}$$

A) 859

B) 949

C) 9590

D) 959

Answer: D

Diff: 0 Type: BI

28) \_\_\_\_\_

Use addition to check the subtraction problem. If the answer is incorrect, find the correct answer.

29)

$$\begin{array}{r} 43 \\ - 31 \\ \hline 13 \end{array}$$

A) Incorrect; should be 11

B) Correct

C) Incorrect; should be 12

D) Incorrect; should be 2

Answer: C

Diff: 0 Type: BI

29) \_\_\_\_\_

Solve the problem.

30) Joe bought 7 bolts on one day and 10 more the next. How many bolts did he buy?

A) 3 bolts

B) 17 bolts

C) 27 bolts

D) 18 bolts

Answer: B

Diff: 0 Type: BI

30) \_\_\_\_\_

Write the number using digits.

31) eight thousand, one hundred sixty-seven

A) 8167

B) 81,067

C) 810,067

D) 800,167

Answer: A

Diff: 0 Type: BI

31) \_\_\_\_\_

Divide. If the division is not possible, write "undefined."

32)  $9321 \div 4$

A) 2330 R3

B) 2330

C) 2331

D) 2330 R1

Answer: D

Diff: 0 Type: BI

32) \_\_\_\_\_

Work the chain multiplication.

33)  $(20)(30)(200)$

A) 119,900

B) 120,000

C) 120,100

D) 119,800

Answer: B

Diff: 0 Type: BI

33) \_\_\_\_\_

Write the digit for the given place value in the whole number.

34) 8641

hundreds

ones

A) hundreds 8  
ones 6

B) hundreds 6  
ones 1

C) hundreds 6  
ones 4

D) hundreds 4  
ones 1

Answer: B

Diff: 0 Type: BI

34) \_\_\_\_\_

Add.

35)

102  
+ 223  
\_\_\_\_\_

A) 426

B) 326

C) 325

D) 227

Answer: C

Diff: 0 Type: BI

35) \_\_\_\_\_

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

2951  
36)  $8 \overline{) 23,608}$

A) Incorrect; should be 2951 R1  
C) Correct

B) Incorrect; should be 2950  
D) Incorrect; should be 2951 R2

Answer: C

Diff: 0 Type: BI

36) \_\_\_\_\_

Solve the problem.

37) In a biology experiment, a scientist collected 8777 mosquitoes in a field and 1220 mosquitoes in an urban area. How many mosquitoes did she collect altogether?

A) 9997 mosquitoes  
C) 7557 mosquitoes

B) 9650 mosquitoes  
D) 8594 mosquitoes

Answer: A

Diff: 0 Type: BI

37) \_\_\_\_\_

Divide. If the division is not possible, write "undefined."

38)  $1316 \div 7$

A) 190

B) 188 R1

C) 188

D) 190 R6

Answer: C

Diff: 0 Type: BI

38) \_\_\_\_\_

Write the digit for the given place value in the whole number.

39) 3,753,176

millions

thousands

A) millions 3  
thousands 5

B) millions 7  
thousands 3

C) millions 1  
thousands 7

D) millions 3  
thousands 3

Answer: D

Diff: 0 Type: BI

39) \_\_\_\_\_

Add.

40)

$$\begin{array}{r} 4688 \\ + 3254 \\ \hline \end{array}$$

A) 7942

B) 1325

C) 1426

D) 1432

Answer: A

Diff: 0 Type: BI

40) \_\_\_\_\_

41)  $3112 + 2213 + 3231$

A) 8358

B) 8556

C) 6448

D) 8647

Answer: B

Diff: 0 Type: BI

41) \_\_\_\_\_

Write the digit for the given place value in the whole number.

42) 6,249,689,527

billions  
millions

A) billions 6  
millions 9

B) billions 2  
millions 9

C) billions 9  
millions 6

D) billions 9  
millions 4

Answer: A

Diff: 0 Type: BI

42) \_\_\_\_\_

Subtract.

43)

$$\begin{array}{r} 55 \\ - 43 \\ \hline \end{array}$$

A) 98

B) 32

C) 6

D) 12

Answer: D

Diff: 0 Type: BI

43) \_\_\_\_\_

44)

$$\begin{array}{r} 68,776 \\ - 2334 \\ \hline \end{array}$$

A) 68,442

B) 66,442

C) 66,374

D) 66,434

Answer: B

Diff: 0 Type: BI

44) \_\_\_\_\_

Add.

45)  $514 + 443$

A) 957

B) 975

C) 687

D) 759

Answer: A

Diff: 0 Type: BI

45) \_\_\_\_\_



Write the digits for the given period (group) in the whole number.

46) 34,000,811,693

46) \_\_\_\_\_

billions

millions

thousands

ones

A) billions 4

B) billions 000

C) billions 3

D) billions 34

millions 8

millions 811

millions 000

millions 000

thousands 1

thousands 693

thousands 11

thousands 811

ones 3

ones 000

ones 93

ones 693

Answer: D

Diff: 0 Type: BI

Divide. If the division is not possible, write "undefined."

47)  $\frac{6}{0}$

47) \_\_\_\_\_

A) 6

B) 0

C) Undefined

D) 1

Answer: C

Diff: 0 Type: BI

Write the number in words.

48) 72,021

48) \_\_\_\_\_

A) seventy-two thousand, two hundred one

B) seventy-two thousand, twenty-one

C) seventy-two hundred, twenty-one

D) seventy-two hundred thousand, twenty-one

Answer: B

Diff: 0 Type: BI

Write the division problem using two other symbols.

49)  $36 \div 9 = 4$

49) \_\_\_\_\_

A)  $\frac{9}{4} = 36$ ;  $36 \overline{) 9}$

B)  $\frac{36}{9} = 4$ ;  $9 \overline{) 36}$

C)  $36 \times 9 = 4$ ;  $36 - 9 = 4$

D)  $\frac{9}{36} = 4$ ;  $36 \overline{) 4}$

Answer: B

Diff: 0 Type: BI

Multiply.

50)

50) \_\_\_\_\_

860

$\times 2$

\_\_\_\_\_

A) 11,720

B) 1720

C) 2720

D) 720

Answer: B

Diff: 0 Type: BI

Subtract.

51)

$$\begin{array}{r} 88 \\ - 55 \\ \hline \end{array}$$

51) \_\_\_\_\_

A) 43

B) 23

C) 143

D) 33

Answer: D

Diff: 0 Type: BI

Write the number using digits.

52) one hundred million, six thousand

A) 1006

B) 1,600,000

C) 106,000,000

D) 100,006,000

52) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Add.

53)  $31,223 + 24,133 + 11,221$

A) 66,667

B) 76,477

C) 66,577

D) 56,677

53) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI

Check the addition. If the answer is incorrect, find the correct answer.

54)

$$\begin{array}{r} 842 \\ 54 \\ 247 \\ + 89 \\ \hline 1222 \end{array}$$

54) \_\_\_\_\_

A) Incorrect; should be 1309

B) Incorrect; should be 1209

C) Incorrect; should be 1232

D) Correct

Answer: C

Diff: 0 Type: BI

Find the total cost.

55) 1814 employees  
at \$74 per day

A) \$134,236

B) \$1740

C) \$1888

D) \$25

55) \_\_\_\_\_

Answer: A

Diff: 0 Type: BI

Divide. If the division is not possible, write "undefined."

56)  $\frac{16}{2}$

56) \_\_\_\_\_

A) 7 R1

B) 8

C) 7 R2

D) 9

Answer: B

Diff: 0 Type: BI

Write the digit for the given place value in the whole number.

57) 85,934

ten thousands

hundreds

A) ten thousands 3

hundreds 9

C) ten thousands 5

hundreds 4

B) ten thousands 8

hundreds 9

D) ten thousands 8

hundreds 5

Answer: B

Diff: 0 Type: BI

57) \_\_\_\_\_

Work the chain multiplication.

58)  $0 \times 7 \times 1$

A) 7

B) 21

C) 8

D) 0

Answer: D

Diff: 0 Type: BI

58) \_\_\_\_\_

Divide. If the division is not possible, write "undefined."

59)  $28 \div 28$

A) 1

B) Undefined

C) 0

D) 28

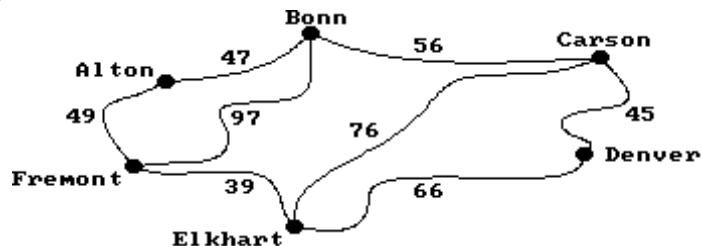
Answer: A

Diff: 0 Type: BI

59) \_\_\_\_\_

Use the map to find the shortest route between the given locations.

60) Elkart to Bonn



A) 136 miles

B) 122 miles

C) 132 miles

D) 97 miles

Answer: C

Diff: 0 Type: BI

60) \_\_\_\_\_

Add.

61)

$$\begin{array}{r} 4082 \\ + 9563 \\ \hline \end{array}$$

A) 13,645

B) 12,635

C) 12,545

D) 12,645

Answer: A

Diff: 0 Type: BI

61) \_\_\_\_\_

Determine whether the number is divisible by 2, 3, 4, 5, 6, 7, 8, 9, and/or 10.

62) 30,020

A) 2, 4, 5, 10

B) 4, 5

C) 4, 5, 10

D) 2, 5

Answer: A

Diff: 0 Type: BI

62) \_\_\_\_\_

Use addition to check the subtraction problem. If the answer is incorrect, find the correct answer.

63)

$$\begin{array}{r} 93 \\ - 76 \\ \hline 17 \end{array}$$

A) Incorrect; should be 27

C) Incorrect; should be 18

B) Correct

D) Incorrect; should be 12

Answer: B

Diff: 0 Type: BI

63) \_\_\_\_\_

Divide. If the division is not possible, write "undefined."

64)  $\frac{60,691}{3}$

A) 20,230

B) 20,230 R1

C) 20,230 R2

D) 20,231

Answer: B

Diff: 0 Type: BI

64) \_\_\_\_\_

65)  $\frac{620,367}{5}$

A) 124,073 R1

B) 124,073

C) 124,072 R7

D) 124,073 R2

Answer: D

Diff: 0 Type: BI

65) \_\_\_\_\_

Solve the problem.

66) Fran has to make 14 sales per day at the department store where she works. How many sales would she be expected to make if she worked 33 days?

A) 466 sales

B) 47 sales

C) 462 sales

D) 51 sales

Answer: C

Diff: 0 Type: BI

66) \_\_\_\_\_

Subtract.

67)

$$\begin{array}{r} 8975 \\ - 535 \\ \hline \end{array}$$

A) 8370

B) 8430

C) 440

D) 8440

Answer: D

Diff: 0 Type: BI

67) \_\_\_\_\_

Write the number in words.

68) 41,203,005

A) forty-one million, two hundred three thousand, fifty

B) forty-one million, two hundred three thousand, five

C) forty-one million, twenty-three thousand, five

D) forty-one million, twenty-three thousand, fifty

Answer: B

Diff: 0 Type: BI

68) \_\_\_\_\_

Add.

69)

$$\begin{array}{r} 58,238 \\ + 99,811 \\ \hline \end{array}$$

69) \_\_\_\_\_

A) 153,050

B) 148,049

C) 168,049

D) 158,049

Answer: D

Diff: 0 Type: BI

Solve the problem.

70) A group of 3 people wants to buy a boat. The boat costs \$363. If they all pay the same amount, how much is each person's share?

70) \_\_\_\_\_

A) \$121

B) \$131

C) \$90

D) \$111

Answer: A

Diff: 0 Type: BI

Use addition, subtraction, or multiplication to solve the problem.

71) There are 32 computers in the keyboarding room. If the room is available for classes 12 periods of the day, what is the maximum number of students that can take keyboarding?

71) \_\_\_\_\_

A) 399 students

B) 20 students

C) 44 students

D) 384 students

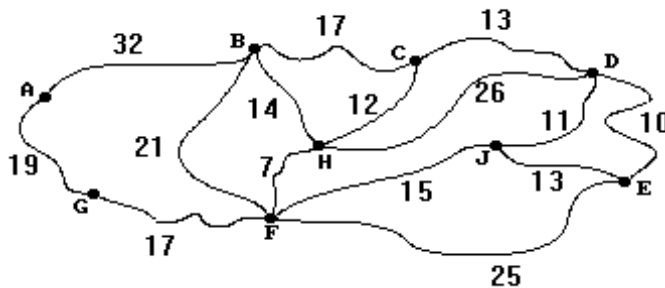
Answer: D

Diff: 0 Type: BI

Use the map to find the shortest route between the given locations.

72) B to J

72) \_\_\_\_\_



A) 59 miles

B) 36 miles

C) 53 miles

D) 41 miles

Answer: B

Diff: 0 Type: BI

Write the number in words.

73) 248,680,020

73) \_\_\_\_\_

A) two hundred forty-eight million, six hundred eighty thousand, two hundred

B) two hundred forty-eight million, six hundred eighty thousand, twenty

C) two hundred forty-eight million, six hundred eighty thousand, two

D) two hundred forty-eight million, sixty-eight thousand, twenty

Answer: B

Diff: 0 Type: BI

Check the addition. If the answer is incorrect, find the correct answer.

74)

$$\begin{array}{r} 525 \\ 164 \\ + 957 \\ \hline 1646 \end{array}$$

A) Incorrect; should be 1648

B) Incorrect; should be 1746

C) Correct

D) Incorrect; should be 1644

Answer: C

Diff: 0 Type: BI

74) \_\_\_\_\_

Multiply.

75)

$$\begin{array}{r} 405 \\ \times 5 \\ \hline \end{array}$$

A) 2025

B) 2035

C) 2125

D) 1925

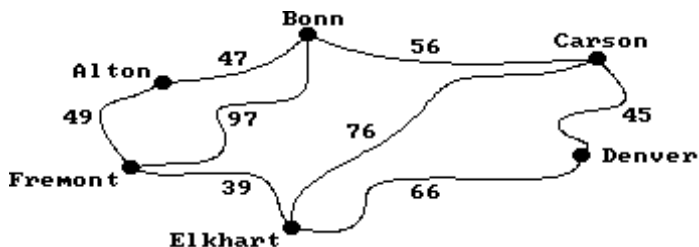
Answer: A

Diff: 0 Type: BI

75) \_\_\_\_\_

Use the map to find the shortest route between the given locations.

76) Fremont to Bonn



A) 86 miles

B) 106 miles

C) 97 miles

D) 96 miles

Answer: D

Diff: 0 Type: BI

76) \_\_\_\_\_

Divide. If the division is not possible, write "undefined."

77)  $21 \overline{)0}$

A) Undefined

B) 21

C) 0

D) 1

Answer: C

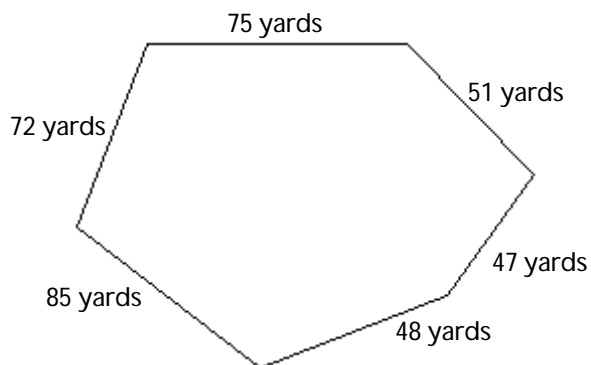
Diff: 0 Type: BI

77) \_\_\_\_\_

Find the perimeter.

- 78) The local park district acquired lands to be used for a new dog park. How many yards of fencing are needed to enclose the dog park?

78) \_\_\_\_\_



A) 306 yd

B) 453 yd

C) 398 yd

D) 378 yd

Answer: D

Diff: 0 Type: BI

Write the number in words.

- 79) 302,038

79) \_\_\_\_\_

- A) three hundred thousand, two hundred thirty-eight
- B) three hundred two thousand, thirty-eight
- C) three hundred two thousand, thirty-eight hundred
- D) thirty-two thousand, thirty-eight

Answer: B

Diff: 0 Type: BI

Use the table to answer the question. Write the number in words.

Housing Types for independent adults:	
Renting an apartment	18,290,023
Renting a house	5,153,354
Owning a condo	7,379,211
Own ing a house	20,652,853

- 80) Find the number of people who rent an apartment.

80) \_\_\_\_\_

- A) eighteen million, two hundred ninety thousand, twenty-three
- B) twenty million, six hundred fifty-two thousand, eight hundred fifty-three
- C) one million, eight hundred twenty-nine thousand, twenty-three
- D) eighteen billion, two hundred ninety thousand, twenty-three

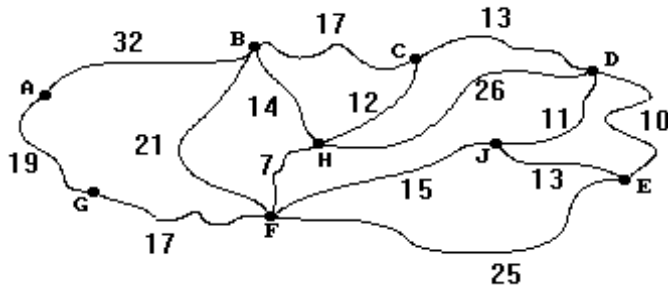
Answer: A

Diff: 0 Type: BI

Use the map to find the shortest route between the given locations.

81) E to G

81) \_\_\_\_\_



A) 55 miles

B) 45 miles

C) 91 miles

D) 42 miles

Answer: D

Diff: 0 Type: BI

Solve the problem.

82) Alicia sold \$1156 in paintings at the art fair. If she sold 2 paintings total, and they all sold for the same amount, what was the price of one painting?

82) \_\_\_\_\_

A) \$559

B) \$610

C) \$578

D) \$478

Answer: C

Diff: 0 Type: BI

83) In the metropolitan area, car dealers have 6914 foreign sports cars for sale and 2233 domestic sports cars for sale. How many sports cars are for sale?

83) \_\_\_\_\_

A) 8649 cars

B) 4681 cars

C) 9147 cars

D) 5600 cars

Answer: C

Diff: 0 Type: BI

Write the number in words.

84) 570,060,825

84) \_\_\_\_\_

A) five hundred seventy million, sixty thousand, eight hundred twenty-five

B) five million, seven hundred six thousand, eight hundred twenty-five

C) fifty-seven million, sixty thousand, eight hundred twenty-five

D) five hundred seventy million, six hundred thousand, eight hundred twenty-five

Answer: A

Diff: 0 Type: BI

Solve the problem.

85) A machine can produce 26 computer chips per day. How many computer chips can be produced in 21 days?

85) \_\_\_\_\_

A) 549 chips

B) 47 chips

C) 546 chips

D) 50 chips

Answer: C

Diff: 0 Type: BI



Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

86) 
$$\begin{array}{r} 991 \text{ R3} \\ 6 \overline{)5949} \end{array}$$

- A) Incorrect; should be 991 R4  
C) Correct

- B) Incorrect; should be 990 R3  
D) Incorrect; should be 991 R2

86) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI

Write the number in words.

87) 200,861

- A) twenty thousand, eight hundred sixty-one  
B) two hundred eight thousand, sixty-one  
C) two thousand, eight hundred sixty-one  
D) two hundred thousand, eight hundred sixty-one

87) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Use addition, subtraction, or multiplication to solve the problem.

88) There are 15,526 freshmen and 10,761 sophomores enrolled at Lincoln Community Junior College. What is the total enrollment?

88) \_\_\_\_\_

- A) 26,287 students      B) 5865 students      C) 26,387 students      D) 4765 students

Answer: A

Diff: 0 Type: BI

Solve the problem.

89) Sergey averages 15 miles per gallon of gasoline in his car. How far can he travel on 18 gallons of gasoline?

89) \_\_\_\_\_

- A) 33 miles      B) 270 miles      C) 279 miles      D) 42 miles

Answer: B

Diff: 0 Type: BI

Write the digit for the given place value in the whole number.

90) 12,887

90) \_\_\_\_\_

ten thousands

ones

- A) ten thousands 8      B) ten thousands 2  
ones 8      ones 7  
C) ten thousands 1      D) ten thousands 1  
ones 2      ones 7

Answer: D

Diff: 0 Type: BI

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

91) 
$$\begin{array}{r} 36,611 \text{ R2} \\ 5 \overline{)183,059} \end{array}$$

- A) Correct  
C) Incorrect; should be 36,612 R2

- B) Incorrect; should be 36,611 R4  
D) Incorrect; should be 36,611 R3

91) \_\_\_\_\_

Answer: B

Diff: 0 Type: BI

Multiply.

92)  $770 \cdot 90$

A) 69,296

B) 69,290

C) 69,300

D) 69,310

92) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI

Work the chain multiplication.

93)  $8 \cdot 7 \cdot 0$

A) 15

B) 56

C) 1

D) 0

93) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Subtract.

94)

$$\begin{array}{r} 55,895 \\ - 34,353 \\ \hline \end{array}$$

A) 21,542

B) 25,542

C) 21,436

D) 21,536

94) \_\_\_\_\_

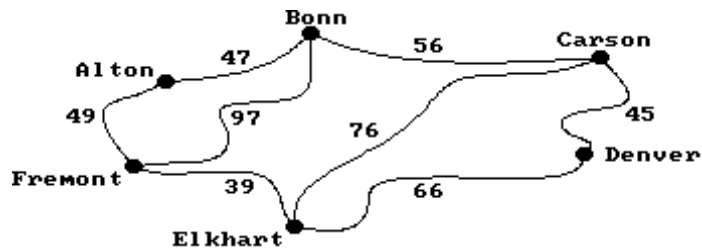
Answer: A

Diff: 0 Type: BI

Use the map to find the shortest route between the given locations.

95) Denver to Alton

95) \_\_\_\_\_



A) 148 miles

B) 154 miles

C) 138 miles

D) 144 miles

Answer: A

Diff: 0 Type: BI

Subtract.

96)

$$\begin{array}{r} 658 \\ - 24 \\ \hline \end{array}$$

A) 682

B) 634

C) 534

D) 626

96) \_\_\_\_\_

Answer: B

Diff: 0 Type: BI

Solve the problem.

97) Alan can bike 66 miles a day. If he can vacation for 14 days, what is the maximum distance he can bike over vacation?

97) \_\_\_\_\_

A) 924 miles

B) 80 miles

C) 160 miles

D) 934 miles

Answer: A

Diff: 0 Type: BI

Multiply.

98)

$$\begin{array}{r} 183 \\ \times 70 \\ \hline \end{array}$$

A) 13,810

B) 12,810

C) 11,810

D) 22,810

Answer: B

Diff: 0 Type: BI

98) \_\_\_\_\_

99) (24)(42)

A) 1008

B) 998

C) 1018

D) 1108

Answer: A

Diff: 0 Type: BI

99) \_\_\_\_\_

Add.

100)

$$\begin{array}{r} 789 \\ + 626 \\ \hline \end{array}$$

A) 1526

B) 1415

C) 1425

D) 1505

Answer: B

Diff: 0 Type: BI

100) \_\_\_\_\_

Solve the problem.

101) A survey of 1067 people found that 437 people were planning to travel on Labor Day weekend. How many people were planning to stay home?

A) 1404 people

B) 530 people

C) 630 people

D) 1504 people

Answer: C

Diff: 0 Type: BI

101) \_\_\_\_\_

Multiply.

102)

$$\begin{array}{r} 600 \\ \times 500 \\ \hline \end{array}$$

A) 299,000

B) 310,000

C) 301,000

D) 300,000

Answer: D

Diff: 0 Type: BI

102) \_\_\_\_\_

Divide. If the division is not possible, write "undefined."

103)  $8 \overline{)330}$

A) 43

B) 41

C) 41 R7

D) 41 R2

Answer: D

Diff: 0 Type: BI

103) \_\_\_\_\_

Check the addition. If the answer is incorrect, find the correct answer.

104)

$$\begin{array}{r} 699 \\ 389 \\ + 320 \\ \hline 1428 \end{array}$$

A) Incorrect; should be 1508

C) Incorrect; should be 1418

B) Incorrect; should be 1408

D) Correct

Answer: B

Diff: 0 Type: BI

104) \_\_\_\_\_

Solve the problem.

105) A coffee can comes packed with enough ground coffee to make 66 cups of coffee. After 26 cups have been made, how many cups of coffee can be made with the remaining ground coffee?

A) 40 cups

B) 92 cups

C) 82 cups

D) 30 cups

Answer: A

Diff: 0 Type: BI

105) \_\_\_\_\_

Divide. If the division is not possible, write "undefined."

106)  $5 \overline{)30}$

A) 6

B) 5 R4

C) 7

D) 5 R5

Answer: A

Diff: 0 Type: BI

106) \_\_\_\_\_

107)  $4 \overline{)197}$

A) 50

B) 49

C) 49 R3

D) 49 R1

Answer: D

Diff: 0 Type: BI

107) \_\_\_\_\_

Multiply.

108)

$$\begin{array}{r} 131 \\ \times 402 \\ \hline \end{array}$$

A) 52,652

B) 52,762

C) 52,662

D) 52,672

Answer: C

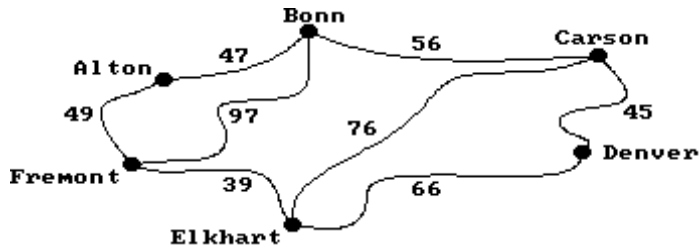
Diff: 0 Type: BI

108) \_\_\_\_\_

Use the map to find the shortest route between the given locations.

109) Fremont to Carson

109) \_\_\_\_\_



A) 76 miles

B) 153 miles

C) 97 miles

D) 115 miles

Answer: D

Diff: 0 Type: BI

Write the digits for the given period (group) in the whole number.

110) 400,742,400,004

110) \_\_\_\_\_

billions

millions

thousands

ones

A) billions 400

B) billions 742

C) billions 000

D) billions 400

millions 700

millions 400

millions 2

millions 742

thousands 400

thousands 4

thousands 0

thousands 400

ones 400

ones 000

ones 4

ones 4

Answer: D

Diff: 0 Type: BI

Determine whether the number is divisible by 2, 3, 4, 5, 6, 7, 8, 9, and/or 10.

111) 14,694

111) \_\_\_\_\_

A) 2, 3, 6

B) 4, 5, 6

C) 2, 3, 4

D) 3, 4, 6

Answer: A

Diff: 0 Type: BI

Find the total cost.

112) 1677 square yards of carpet  
at \$21 per square yard

112) \_\_\_\_\_

A) \$1656

B) \$80

C) \$35,217

D) \$1698

Answer: C

Diff: 0 Type: BI

Write the digit for the given place value in the whole number.

113) 33,265

113) \_\_\_\_\_

thousands

tens

A) thousands 3

B) thousands 3

C) thousands 2

D) thousands 6

tens 3

tens 6

tens 5

tens 5

Answer: B

Diff: 0 Type: BI

Use addition, subtraction, or multiplication to solve the problem.

- 114) The list price of a car is \$17,306. The manufacturer offers a rebate of \$658. What is the final price of the car? 114) \_\_\_\_\_
- A) \$17,964                      B) \$16,648                      C) \$17,864                      D) \$16,548

Answer: B

Diff: 0    Type: BI

Write the digits for the given period (group) in the whole number.

- 115) 43,759 115) \_\_\_\_\_
- thousands  
ones
- A) thousands 43                      B) thousands 43                      C) thousands 4                      D) thousands 3  
ones 59                      ones 759                      ones 9                      ones 9

Answer: B

Diff: 0    Type: BI

Solve the problem.

- 116) There are 1364 students registered at Lincoln Community College. 393 of them are men. How many women are registered? 116) \_\_\_\_\_
- A) 1657 women                      B) 1757 women                      C) 961 women                      D) 971 women

Answer: D

Diff: 0    Type: BI

Check the addition. If the answer is incorrect, find the correct answer.

- 117) 117) \_\_\_\_\_
- 201  
152  
+ 304  
—  
557
- A) Incorrect; should be 647                      B) Incorrect; should be 657  
C) Correct                      D) Incorrect; should be 507

Answer: B

Diff: 0    Type: BI

Multiply.

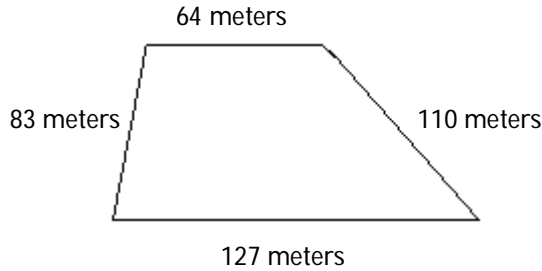
- 118)  $9400 \cdot 300$  118) \_\_\_\_\_
- A) 2,820,000                      B) 2,819,501                      C) 2,819,000                      D) 2,821,000

Answer: A

Diff: 0    Type: BI

Find the perimeter.

- 119) Maria needs to replace all the fencing around her horse pasture. How many meters of fencing will she need? 119) \_\_\_\_\_



- A) 348 m                      B) 386 m                      C) 384 m                      D) 320 m

Answer: C

Diff: 0    Type: BI

Write the number as indicated.

- 120) The world-wide production of cereal grains has reached about one billion, nine hundred sixty-eight million, four hundred eight thousand, six hundred tons. Write the number using digits. 120) \_\_\_\_\_

- A) 1,968,408,600                      B) 1,968,408,060                      C) 1,968,848,600                      D) 1,968,480,600

Answer: A

Diff: 0    Type: BI

Solve the problem.

- 121) Richard's team wants to plant 106 trees in 2 months. How many trees per month do they need to plant? 121) \_\_\_\_\_

- A) 63 trees                      B) 106 trees                      C) 55 trees                      D) 53 trees

Answer: D

Diff: 0    Type: BI

Write the digits for the given period (group) in the whole number.

- 122) 39,212,832                      122) \_\_\_\_\_  
millions  
thousands  
ones

- |               |                |               |                |
|---------------|----------------|---------------|----------------|
| A) millions 9 | B) millions 39 | C) millions 3 | D) millions 39 |
| thousands 2   | thousands 212  | thousands 2   | thousands 12   |
| ones 2        | ones 832       | ones 8        | ones 32        |

Answer: B

Diff: 0    Type: BI

Solve the problem.

- 123) How many months are there in 18 years? 123) \_\_\_\_\_

- A) 226 months                      B) 40 months                      C) 216 months                      D) 30 months

Answer: C

Diff: 0    Type: BI

Subtract.

124)

$$\begin{array}{r} 95,229 \\ - 27,762 \\ \hline \end{array}$$

124) \_\_\_\_\_

A) 67,423

B) 74,467

C) 67,467

D) 67,463

Answer: C

Diff: 0 Type: BI

Determine whether the number is divisible by 2, 3, 4, 5, 6, 7, 8, 9, and/or 10.

125) 15,753

A) 3

B) 2, 3, 9

C) 3, 9

D) 9

125) \_\_\_\_\_

Answer: A

Diff: 0 Type: BI

Write the number using digits.

126) seven thousand, six

A) 7006

B) 76,000

C) 7060

D) 7600

126) \_\_\_\_\_

Answer: A

Diff: 0 Type: BI

Use addition to check the subtraction problem. If the answer is incorrect, find the correct answer.

127)

$$\begin{array}{r} 866 \\ - 552 \\ \hline 314 \end{array}$$

A) Correct

C) Incorrect; should be 414

B) Incorrect; should be 313

D) Incorrect; should be 324

127) \_\_\_\_\_

Answer: A

Diff: 0 Type: BI

Write the number as indicated.

128) A certain exotic sportscar costs three hundred twelve thousand, four hundred ninety-four dollars.

Write the number using digits.

A) \$312,494,000

B) \$3,204,940

C) \$312,494

D) \$31,244

128) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI



Add. 129) \_\_\_\_\_

$$\begin{array}{r}
 155 \\
 50 \\
 6402 \\
 34 \\
 807 \\
 + 1726 \\
 \hline
 \end{array}$$

A) 26,148                      B) 9174                      C) 10,459                      D) 3670  
 Answer: B  
 Diff: 0    Type: BI

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

130)  $\begin{array}{r} 639 \text{ R3} \\ 6 \overline{) 3838} \end{array}$  \_\_\_\_\_

A) Incorrect; should be 640 R5                      B) Incorrect; should be 639 R4  
 C) Incorrect; should be 638 R3                      D) Correct  
 Answer: B  
 Diff: 0    Type: BI

Find the total cost.

131) 5 yards of fabric at \$15 per yard \_\_\_\_\_

A) \$75                      B) \$10                      C) \$3                      D) \$20  
 Answer: A  
 Diff: 0    Type: BI

Solve the problem.

132) Sue had \$737 in her bank account. She deposited a \$628 pay check and a \$407 pay check. How much did she deposit and what was her new balance? \_\_\_\_\_

A) \$1035; \$1772                      B) \$1365; \$1772                      C) \$1035; \$1762                      D) \$1144; \$1672  
 Answer: A  
 Diff: 0    Type: BI

Use addition to check the subtraction problem. If the answer is incorrect, find the correct answer.

133) \_\_\_\_\_

$$\begin{array}{r}
 7168 \\
 - 7001 \\
 \hline
 168
 \end{array}$$

A) Incorrect; should be 67                      B) Incorrect; should be 177  
 C) Incorrect; should be 167                      D) Correct  
 Answer: C  
 Diff: 0    Type: BI

Check the addition. If the answer is incorrect, find the correct answer.

134)

$$\begin{array}{r} 400 \\ 815 \\ + 450 \\ \hline 1655 \end{array}$$

A) Correct

C) Incorrect; should be 1565

B) Incorrect; should be 1665

D) Incorrect; should be 1765

Answer: B

Diff: 0 Type: BI

134) \_\_\_\_\_

Multiply.

135) (167)(87)

A) 14,539

B) 14,529

C) 14,629

D) 14,519

Answer: B

Diff: 0 Type: BI

135) \_\_\_\_\_

Work the chain multiplication.

136)  $11 \cdot 81 \cdot 2$

A) 1782

B) 1772

C) 1682

D) 1882

Answer: A

Diff: 0 Type: BI

136) \_\_\_\_\_

Use the table to answer the question. Write the number in words.

Housing Types for independent adults:	
Renting an apartment	18,290,023
Renting a house	5,153,354
Owning a condo	7,379,211
Own ing a house	20,652,853

137) Find the number of people who own a condo.

A) seven billion, three hundred seventy-nine thousand, two hundred eleven

B) seven million, three hundred seventy-nine thousand, two hundred eleven

C) seventy-three million, seventy-nine thousand, two hundred eleven

D) five million, one hundred fifty-three thousand, three hundred fifty-four

Answer: B

Diff: 0 Type: BI

137) \_\_\_\_\_

Check the addition. If the answer is incorrect, find the correct answer.

138)

138) \_\_\_\_\_

$$\begin{array}{r} 4243 \\ 829 \\ 1418 \\ + 438 \\ \hline 7028 \end{array}$$

A) Incorrect; should be 6938

B) Incorrect; should be 6788

C) Correct

D) Incorrect; should be 6928

Answer: D

Diff: 0 Type: BI

Write the number as indicated.

139) A planet orbits its sun at a distance of about 91,968,000 miles. Write the number in words.

139) \_\_\_\_\_

A) Ninety-one billion, nine hundred sixty-eight million miles

B) Ninety-one billion, nine hundred sixty-eight thousand miles

C) Ninety-one million, nine hundred sixty-eight miles

D) Ninety-one million, nine hundred sixty-eight thousand miles

Answer: D

Diff: 0 Type: BI

Solve the problem.

140) Sun Woo has \$7088 in his checking account. How much is in the account after he writes a check for \$778?

140) \_\_\_\_\_

A) \$6310

B) \$7876

C) \$6210

D) \$7866

Answer: A

Diff: 0 Type: BI

Write the number using digits.

141) thirty-two thousand, nine hundred five

141) \_\_\_\_\_

A) 32,950

B) 32,905

C) 3295

D) 320,905

Answer: B

Diff: 0 Type: BI

Subtract.

142)

142) \_\_\_\_\_

$$\begin{array}{r} 7967 \\ - 4253 \\ \hline \end{array}$$

A) 3714

B) 3608

C) 3708

D) 7714

Answer: A

Diff: 0 Type: BI

Solve the problem.

143) Last year the hatch-back model of a new car cost \$16,585. This year's model costs \$19,747. How much more does this year's model cost?

143) \_\_\_\_\_

A) \$3162

B) \$3062

C) \$35,332

D) \$36,332

Answer: A

Diff: 0 Type: BI

Determine whether the number is divisible by 2, 3, 4, 5, 6, 7, 8, 9, and/or 10.

144) 5185

A) 5, 10

B) 5

C) 10

D) 2, 5, 10

144) \_\_\_\_\_

Answer: B

Diff: 0 Type: BI

Add.

145)

200

442

+ 121

\_\_\_\_\_

A) 763

B) 652

C) 562

D) 673

145) \_\_\_\_\_

Answer: A

Diff: 0 Type: BI

Work the chain multiplication.

146) (1)(9)(3)

A) 193

B) 36

C) 13

D) 27

146) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Write the number using digits.

147) forty-eight thousand, seventeen

A) 47,180

B) 48,017

C) 4817

D) 48,170

147) \_\_\_\_\_

Answer: B

Diff: 0 Type: BI

Solve the problem.

148) A local pharmacy has 9 bottles of a certain antibiotic, with each bottle containing 60 pills. Find the total number of antibiotic pills.

A) 60 pills

B) 69 pills

C) 550 pills

D) 540 pills

148) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Find the perimeter.

149) The length of a rectangle is 103 inches and the width is 53 inches.

A) 259 in.

B) 5459 in.

C) 312 in.

D) 156 in.

149) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

150) 
$$\begin{array}{r} 39 \text{ R}2 \\ 8 \overline{)314} \end{array}$$

A) Incorrect; should be 39 R3

B) Incorrect; should be 38 R2

C) Correct

D) Incorrect; should be 39 R1

150) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI

Write the number as indicated.

151) A recent census confirmed that the population of a major city is 2,900,002. Write the number in words. 151) \_\_\_\_\_

- A) Two million, nine thousand, two hundred
- B) Two million, nine thousand, two
- C) Two million, nine hundred thousand, two
- D) Two million, nine hundred thousand, twenty

Answer: C

Diff: 0 Type: BI

Divide. If the division is not possible, write "undefined."

152)  $\frac{5864}{4}$  152) \_\_\_\_\_

- A) 1466 R 3
- B) 1466
- C) 1464
- D) 1464 R 1

Answer: B

Diff: 0 Type: BI

153)  $4 \overline{)1959}$  153) \_\_\_\_\_

- A) 489
- B) 488 R7
- C) 489 R3
- D) 489 R2

Answer: C

Diff: 0 Type: BI

Work the chain multiplication.

154)  $(10)(30)(80)$  154) \_\_\_\_\_

- A) 23,990
- B) 23,900
- C) 24,000
- D) 24,100

Answer: C

Diff: 0 Type: BI

Multiply.

155) \_\_\_\_\_

$$\begin{array}{r} 3915 \\ \times 347 \\ \hline \end{array}$$

- A) 1,358,505
- B) 1,358,605
- C) 1,357,505
- D) 1,368,505

Answer: A

Diff: 0 Type: BI

Subtract.

156) \_\_\_\_\_

$$\begin{array}{r} 22,442 \\ - 6965 \\ \hline \end{array}$$

- A) 21,477
- B) 15,473
- C) 15,477
- D) 15,393

Answer: C

Diff: 0 Type: BI

Write the number as indicated.

- 157) When the stock market went down in the Spring of 2000, Ellen lost one million, five thousand, seventy-six dollars. Write the number using digits. 157) \_\_\_\_\_
- A) \$1,500,760      B) \$1,050,076      C) \$1,500,076      D) \$1,005,076

Answer: D

Diff: 0    Type: BI

Solve the problem.

- 158) A pair of running shoes costs \$99 and a pair of basketball shoes costs \$78. Find the total cost for both pairs of shoes. 158) \_\_\_\_\_
- A) \$21      B) \$177      C) \$40      D) \$173

Answer: B

Diff: 0    Type: BI

Add.

- 159) 159) \_\_\_\_\_
- $$\begin{array}{r} 3221 \\ 422 \\ + 1131 \\ \hline \end{array}$$

A) 4588      B) 4774      C) 4586      D) 4576

Answer: B

Diff: 0    Type: BI

Subtract.

- 160) 160) \_\_\_\_\_
- $$\begin{array}{r} 9497 \\ - 2611 \\ \hline \end{array}$$

A) 8886      B) 6864      C) 6884      D) 6886

Answer: D

Diff: 0    Type: BI

Multiply.

- 161) 161) \_\_\_\_\_
- $$\begin{array}{r} 40 \\ \times 5 \\ \hline \end{array}$$

A) 200      B) 210      C) 190      D) 180

Answer: A

Diff: 0    Type: BI

Determine whether the number is divisible by 2, 3, 4, 5, 6, 7, 8, 9, and/or 10.

- 162) 6298 162) \_\_\_\_\_
- A) 3, 4      B) 4      C) 2, 3, 4      D) 2

Answer: D

Diff: 0    Type: BI

Write the number in words.

163) 30,986,007

163) \_\_\_\_\_

- A) thirty million, nine hundred eighty-six thousand, seven
- B) three million, nine hundred eighty-six thousand, seventy
- C) thirty million, nine hundred eighty-six thousand, seventy
- D) three million, nine hundred eighty-six thousand, seven

Answer: A

Diff: 0 Type: BI

Divide. If the division is not possible, write "undefined."

164)  $66,495 \div 6$

164) \_\_\_\_\_

- A) 11,082 R5
- B) 11,085
- C) 11,082 R3
- D) 11,082

Answer: C

Diff: 0 Type: BI

Determine whether the number is divisible by 2, 3, 4, 5, 6, 7, 8, 9, and/or 10.

165) 779

165) \_\_\_\_\_

- A) 3
- B) 3, 7
- C) None
- D) 3, 5

Answer: C

Diff: 0 Type: BI

Find the total cost.

166) 1115 hospital mattresses  
at \$75 per mattress

166) \_\_\_\_\_

- A) \$1040
- B) \$83,625
- C) \$15
- D) \$1190

Answer: B

Diff: 0 Type: BI

Multiply.

167)

167) \_\_\_\_\_

$$\begin{array}{r} 96 \\ \times 8 \\ \hline \end{array}$$

- A) 768
- B) 734
- C) 728
- D) 868

Answer: A

Diff: 0 Type: BI

Divide. If the division is not possible, write "undefined."

168)  $4 \overline{) 12,495}$

168) \_\_\_\_\_

- A) 3122 R7
- B) 3123
- C) 3123 R2
- D) 3123 R3

Answer: D

Diff: 0 Type: BI

Multiply.

169)

$$\begin{array}{r} 17 \\ \times 82 \\ \hline \end{array}$$

A) 1404

B) 1384

C) 1394

D) 1494

Answer: C

Diff: 0 Type: BI

169) \_\_\_\_\_

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

$$\begin{array}{r} 42 \text{ R7} \\ 9 \overline{) 384} \end{array}$$

A) Incorrect; should be 42

B) Incorrect; should be 41 R7

C) Correct

D) Incorrect; should be 42 R6

Answer: D

Diff: 0 Type: BI

170) \_\_\_\_\_

Write the number in words.

171) 5,060,572

A) five million, sixty thousand, five hundred seventy-two

B) fifty-six hundred thousand, five hundred seventy-two

C) five million, six hundred thousand, five hundred seventy-two

D) five million, six thousand, five hundred seventy-two

Answer: A

Diff: 0 Type: BI

171) \_\_\_\_\_

Write the digits for the given period (group) in the whole number.

172) 6,697,008

millions

thousands

ones

A) millions 6  
thousands 6  
ones 8

B) millions 66  
thousands 97  
ones 8

C) millions 6  
thousands 697  
ones 000

D) millions 6  
thousands 697  
ones 8

Answer: D

Diff: 0 Type: BI

172) \_\_\_\_\_

Work the chain multiplication.

173)  $7 \times 6 \times 0$

A) 10

B) 13

C) 42

D) 0

Answer: D

Diff: 0 Type: BI

173) \_\_\_\_\_

Determine whether the number is divisible by 2, 3, 4, 5, 6, 7, 8, 9, and/or 10.

174) 3400

A) 2, 4, 8

B) 2, 4, 5, 8, 10

C) 2, 3, 4, 5, 8, 10

D) 2, 4, 5, 10

Answer: B

Diff: 0 Type: BI

174) \_\_\_\_\_



Write the number using digits.

175) six hundred thirty-eight thousand, nine hundred ninety-seven

A) 638,997,000

B) 638,997

C) 638,977

D) 638,000

175) \_\_\_\_\_

Answer: B

Diff: 0 Type: BI

Use addition to check the subtraction problem. If the answer is incorrect, find the correct answer.

176)

$$\begin{array}{r} 9955 \\ - 4433 \\ \hline 5522 \end{array}$$

A) Incorrect; should be 5532

B) Incorrect; should be 6522

C) Correct

D) Incorrect; should be 5622

176) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI

Use the table to answer the question. Write the number in words.

Housing Types for independent adults:	
Renting an apartment	18,290,023
Renting a house	5,153,354
Owning a condo	7,379,211
Owning a house	20,652,853

177) Which type of housing is most used?

A) owning a house; twenty million, six hundred fifty-two thousand, eight hundred fifty-three

B) owning a house; twenty billion, six hundred fifty-two million, eight hundred fifty-three

C) owning a condo; seven thousand, three hundred seventy-nine million, two hundred eleven

D) renting a house; five million, one hundred fifty-three thousand, three hundred fifty-four

177) \_\_\_\_\_

Answer: A

Diff: 0 Type: BI

Subtract.

178)

$$\begin{array}{r} 3478 \\ - 746 \\ \hline \end{array}$$

A) 2720

B) 268

C) 2732

D) 2640

178) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI

Solve the problem.

179) This table shows the number of lawns mowed during one week by one of the Hill Landscaping Company crews.

179) \_\_\_\_\_

Day of the Week	Number of Lawns Mowed
Sunday	0
Monday	8
Tuesday	6
Wednesday	10
Thursday	7
Friday	9
Saturday	8

What is the total number of lawns mowed on Friday and Saturday?

- A) 17 lawns
- B) 15 lawns
- C) Can't answer this question using this table.
- D) 16 lawns

Answer: A

Diff: 0 Type: BI

Subtract.

180)

$$\begin{array}{r} 51 \\ - 46 \\ \hline \end{array}$$

180) \_\_\_\_\_

- A) 5
- B) 15
- C) 3
- D) 97

Answer: A

Diff: 0 Type: BI

Check the addition. If the answer is incorrect, find the correct answer.

181)

$$\begin{array}{r} 71 \\ 850 \\ 50 \\ + 372 \\ \hline 1343 \end{array}$$

181) \_\_\_\_\_

- A) Correct
- B) Incorrect; should be 1353
- C) Incorrect; should be 1333
- D) Incorrect; should be 1453

Answer: A

Diff: 0 Type: BI

Write the number using digits.

182) two hundred six thousand, one hundred seven

182) \_\_\_\_\_

- A) 206,107
- B) 207,106
- C) 2617
- D) 260,170

Answer: A

Diff: 0 Type: BI

Subtract.

183)

$$\begin{array}{r} 8779 \\ - 4152 \\ \hline \end{array}$$

A) 8627

B) 4523

C) 4623

D) 4627

Answer: D

Diff: 0 Type: BI

183) \_\_\_\_\_

Work the chain multiplication.

184)  $97 \times 4 \times 78$

A) 30,264

B) 30,254

C) 30,253

D) 30,275

Answer: A

Diff: 0 Type: BI

184) \_\_\_\_\_

Add.

185)

$$\begin{array}{r} 6119 \\ 173 \\ 67 \\ 4403 \\ + 9773 \\ \hline \end{array}$$

A) 20,535

B) 19,435

C) 19,525

D) 20,425

Answer: A

Diff: 0 Type: BI

185) \_\_\_\_\_

186)

$$\begin{array}{r} 35 \\ + 14 \\ \hline \end{array}$$

A) 94

B) 49

C) 85

D) 76

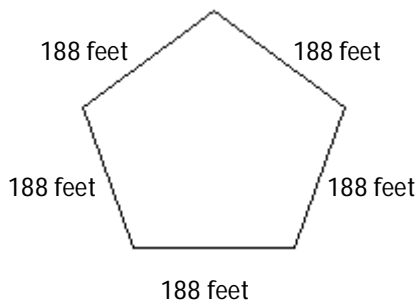
Answer: B

Diff: 0 Type: BI

186) \_\_\_\_\_

Find the perimeter.

- 187) The city plans to frame the local playground with redwood lumber. How many feet of lumber will the city need? 187) \_\_\_\_\_



- A) 35,344 ft      B) 1128 ft      C) 940 ft      D) 955 ft

Answer: C

Diff: 0    Type: BI

Divide. If the division is not possible, write "undefined."

- 188)  $48 \div 6$  188) \_\_\_\_\_  
A) 7 R6      B) 9      C) 7 R5      D) 8

Answer: D

Diff: 0    Type: BI

Find the total cost.

- 189) 1382 gallons of paint at \$5 per gallon 189) \_\_\_\_\_

- A) \$1377      B) \$276      C) \$1387      D) \$6910

Answer: D

Diff: 0    Type: BI

Write the digit for the given place value in the whole number.

- 190) 5,848,133 190) \_\_\_\_\_  
hundred thousands  
tens

- A) hundred thousands 8      B) hundred thousands 8  
tens 3      tens 8  
C) hundred thousands 4      D) hundred thousands 5  
tens 1      tens 3

Answer: A

Diff: 0    Type: BI

Write the number as indicated.

- 191) The Johnsons have driven their car forty six thousand, eight hundred nine miles in the last few years. Write the number using digits. 191) \_\_\_\_\_

- A) 4689      B) 46,809      C) 46,890      D) 460,809

Answer: B

Diff: 0    Type: BI

Write the division problem using two other symbols.

192)  $\frac{18}{2} = 9$

192) \_\_\_\_\_

A)  $18 \div 9 = 2$ ;  $9 \overline{)18}^2$

B)  $9 \div 2 = 18$ ;  $2 \overline{)9}^{18}$

C)  $18 \div 2 = 9$ ;  $2 \overline{)18}^9$

D)  $2 \times 9 = 18$ ;  $\frac{2}{9} = 18$

Answer: C

Diff: 0 Type: BI

Use addition, subtraction, or multiplication to solve the problem.

193) Ryan bought 4 rose plants at \$11 each, 2 begonias at \$4 each, and 9 geraniums at \$6 each. Find the total cost of the plants.

193) \_\_\_\_\_

A) \$106

B) \$1350

C) \$36

D) \$315

Answer: A

Diff: 0 Type: BI

Subtract.

194)

$$\begin{array}{r} 825 \\ - 151 \\ \hline \end{array}$$

194) \_\_\_\_\_

A) 976

B) 574

C) 674

D) 672

Answer: C

Diff: 0 Type: BI

Write the number as indicated.

195) In 2003, a large corporation earned approximately \$13,500,000,000. Write the number in words.

195) \_\_\_\_\_

A) Thirteen billion, five hundred million dollars

B) Thirteen billion, five million dollars

C) Thirteen million, five thousand dollars

D) Thirteen billion, five hundred thousand dollars

Answer: A

Diff: 0 Type: BI

Add.

196)  $14 + 22 + 23$

196) \_\_\_\_\_

A) 95

B) 77

C) 68

D) 59

Answer: D

Diff: 0 Type: BI

Write the digit for the given place value in the whole number.

197) 2865

197) \_\_\_\_\_

thousands

tens

A) thousands 2  
tens 5

B) thousands 8  
tens 6

C) thousands 8  
tens 5

D) thousands 2  
tens 6

Answer: D

Diff: 0 Type: BI

Solve the problem.

198) Sanjay is driving 890 miles to get home from college. If he drives 328 miles the first day, how many miles remain? 198) \_\_\_\_\_

A) 562 miles

B) 552 miles

C) 1228 miles

D) 1218 miles

Answer: A

Diff: 0 Type: BI

Write the digits for the given period (group) in the whole number.

199) 12,000,157

199) \_\_\_\_\_

millions

thousands

ones

A) millions 000  
thousands 12  
ones 57

B) millions 1  
thousands 0  
ones 7

C) millions 12  
thousands 000  
ones 7

D) millions 12  
thousands 000  
ones 157

Answer: D

Diff: 0 Type: BI

Check the addition. If the answer is incorrect, find the correct answer.

200)

200) \_\_\_\_\_

7871

849

16

+ 4875

13,611

A) Incorrect; should be 13,521

B) Incorrect; should be 13,511

C) Correct

D) Incorrect; should be 14,611

Answer: C

Diff: 0 Type: BI

Find the perimeter.

201) A gardener wants to put a fence around a garden with sides of lengths 38 meters, 18 meters, 63 meters, and 22 meters. How much fencing must he buy? 201) \_\_\_\_\_

A) 170 m

B) 202 m

C) 141 m

D) 112 m

Answer: C

Diff: 0 Type: BI

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

$$\begin{array}{r} 4635 \text{ R3} \\ 5 \overline{) 23,176} \end{array}$$

- A) Incorrect; should be 4635 R1  
C) Incorrect; should be 4636 R3

- B) Correct  
D) Incorrect; should be 4635 R2

Answer: A

Diff: 0 Type: BI

202) \_\_\_\_\_

Subtract.

$$\begin{array}{r} 968 \\ - 121 \\ \hline \end{array}$$

A) 847

B) 845

C) 1089

D) 747

Answer: A

Diff: 0 Type: BI

203) \_\_\_\_\_

Multiply.

$$\begin{array}{r} 4346 \\ \times 5 \\ \hline \end{array}$$

A) 21,730

B) 21,630

C) 21,830

D) 21,740

Answer: A

Diff: 0 Type: BI

204) \_\_\_\_\_

Write the number as indicated.

205) A company had net revenues of \$6,800,655 in one year. Write the number in words.

- A) Six million, eight hundred thousand, six thousand fifty-five dollars  
B) Six million, eight hundred thousand, six hundred fifty-five dollars  
C) Six million, eighty thousand, six hundred fifty-five dollars  
D) Six million, eight thousand, six hundred fifty-five dollars

Answer: B

Diff: 0 Type: BI

205) \_\_\_\_\_

Write the number in words.

206) 66,601

- A) sixty-six thousand, six hundred one  
B) six thousand six, six hundred one  
C) sixty-six thousand, sixty-one  
D) sixty-six hundred thousand, six hundred one

Answer: A

Diff: 0 Type: BI

206) \_\_\_\_\_

Divide. If the division is not possible, write "undefined."

$$207) \frac{42}{6}$$

A) 7

B) 6 R6

C) 8

D) 6 R5

Answer: A

Diff: 0 Type: BI

207) \_\_\_\_\_

Add.  
 208) 208) \_\_\_\_\_  
     63  
   + 17  
        
     A) 82                      B) 70                      C) 80                      D) 90  
 Answer: C  
 Diff: 0    Type: BI

Multiply.  
 209) 209) \_\_\_\_\_  
     900  
   × 2  
        
     A) 2800                      B) 1700                      C) 1800                      D) 800  
 Answer: C  
 Diff: 0    Type: BI

Determine whether the number is divisible by 2, 3, 4, 5, 6, 7, 8, 9, and/or 10.  
 210) 99,613 210) \_\_\_\_\_  
     A) 3, 5                      B) None                      C) 3, 7                      D) 3  
 Answer: B  
 Diff: 0    Type: BI

Multiply.  
 211) 211) \_\_\_\_\_  
     6964  
   × 8564  
        
     A) 59,639,696                      B) 59,638,696                      C) 59,639,796                      D) 59,649,696  
 Answer: A  
 Diff: 0    Type: BI

Divide. If the division is not possible, write "undefined."  
 212)  $8 \overline{)24}$  212) \_\_\_\_\_  
     A) 3                      B) 2 R8                      C) 4                      D) 2 R7  
 Answer: A  
 Diff: 0    Type: BI

Use addition to check the subtraction problem. If the answer is incorrect, find the correct answer.  
 213) 213) \_\_\_\_\_  
     629  
   - 546  
        
     84  
     A) Incorrect; should be 83                      B) Incorrect; should be 78  
     C) Incorrect; should be 93                      D) Correct  
 Answer: A  
 Diff: 0    Type: BI



Write the number as indicated.

- 214) An expensive telescope has found evidence that the universe contains about 108,100,000,000 galaxies. Write the number in words.

214) \_\_\_\_\_

- A) One hundred eight billion, one million dollars galaxies
- B) One hundred eight million, one thousand galaxies
- C) One hundred eight billion, one hundred million galaxies
- D) One hundred eight billion, one hundred thousand galaxies

Answer: C

Diff: 0 Type: BI

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

215) 
$$\begin{array}{r} 1573 \text{ R4} \\ 8 \overline{) 12,588} \end{array}$$

215) \_\_\_\_\_

- A) Incorrect; should be 1573 R3
- B) Correct
- C) Incorrect; should be 1574
- D) Incorrect; should be 1572 R4

Answer: B

Diff: 0 Type: BI

Add.

216) 
$$\begin{array}{r} 67 \\ + 38 \\ \hline \end{array}$$

216) \_\_\_\_\_

- A) 104
- B) 95
- C) 106
- D) 105

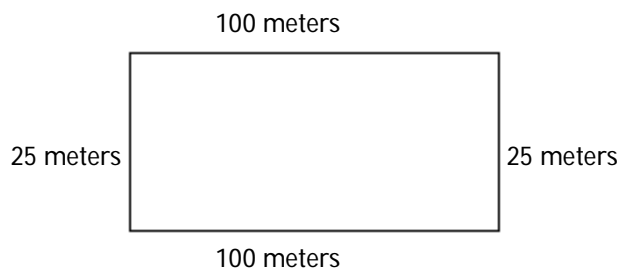
Answer: D

Diff: 0 Type: BI

Find the perimeter.

- 217) A concrete curb is to be built around a parking lot. How many meters of curbing will be needed?

217) \_\_\_\_\_



- A) 2500 m
- B) 250 m
- C) 225 m
- D) 125 m

Answer: B

Diff: 0 Type: BI

Write the number using digits.

- 218) ten million, three hundred fifty-four thousand, two hundred three

218) \_\_\_\_\_

- A) 10,354,203
- B) 1,354,203
- C) 1,354,230
- D) 135,423

Answer: A

Diff: 0 Type: BI

Determine whether the number is divisible by 2, 3, 4, 5, 6, 7, 8, 9, and/or 10.

219) 17

A) 3, 7

B) 3, 5

C) None

D) 3

219) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI

Multiply.

220)

$$\begin{array}{r} 6933 \\ \times 60 \\ \hline \end{array}$$

220) \_\_\_\_\_

A) 415,980

B) 414,980

C) 425,980

D) 416,980

Answer: A

Diff: 0 Type: BI

Use the table to answer the question. Write the number in words.

Housing Types for independent adults:	
Renting an apartment	18,290,023
Renting a house	5,153,354
Owning a condo	7,379,211
Own ing a house	20,652,853

221) Which type of housing is least used?

A) renting a house; five billion, one hundred fifty-three thousand, three hundred fifty-four

B) owning a condo; seven million, three hundred seventy-nine thousand, two hundred eleven

C) owning a condo; seven thousand, three hundred seventy-nine million, two hundred eleven

D) renting a house; five million, one hundred fifty-three thousand, three hundred fifty-four

221) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Check the addition. If the answer is incorrect, find the correct answer.

222)

$$\begin{array}{r} 6678 \\ 220 \\ 8857 \\ 797 \\ + 87 \\ \hline 16,629 \end{array}$$

222) \_\_\_\_\_

A) Incorrect; should be 16,639

B) Incorrect; should be 16,640

C) Correct

D) Incorrect; should be 16,739

Answer: A

Diff: 0 Type: BI

Write the division problem using two other symbols.

$$223) \overline{7 \over 56}$$

223) \_\_\_\_\_

A)  $56 \div 7 = 8$ ;  $\frac{56}{7} = 8$

B)  $\frac{7}{8} = 56$ ;  $7 \div 8 = 56$

C)  $56 \div 8 = 7$ ;  $\frac{56}{8} = 7$

D)  $7 \times 8 = 56$ ;  $8 \overline{) 56}$

Answer: A

Diff: 0 Type: BI

Multiply.

$$224) \begin{array}{r} 41,000 \\ \times 2000 \\ \hline \end{array}$$

224) \_\_\_\_\_

A) 82,000,000

B) 82,001,000

C) 81,999,501

D) 81,999,000

Answer: A

Diff: 0 Type: BI

Solve the problem.

225) The city bridge has 9 lanes, all carrying equal numbers of cars. If 648 cars drive across the bridge, how many cars cross in each lane?

225) \_\_\_\_\_

A) 657 cars

B) 81 cars

C) 72 cars

D) 73 cars

Answer: C

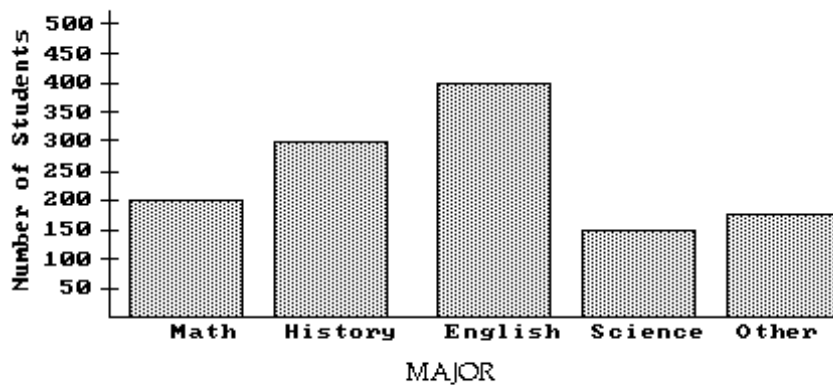
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Name \_\_\_\_\_

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Use the bar graph to answer the question.

- 1) The bar graph below shows the number of students by major in the College of Arts and Sciences. 1) \_\_\_\_\_



Which major has the fewest number of students?

- A) Other                      B) Math                      C) English                      D) Science

Answer: D

Diff: 0    Type: BI

Solve the problem.

- 2) A caterer uses special stacking ovens to prepare large amounts of food. Find the total number of servings that can be prepared in one hour. 2) \_\_\_\_\_

Meatloaf: 8 servings per pan

Number of pans per oven: 2

Pan changes per hour: 2

Number of ovens: 3

- A) 46 servings                      B) 48 servings                      C) 96 servings                      D) 32 servings

Answer: C

Diff: 0    Type: BI

Fill in the blanks.

- 3)
- $2^2 = \underline{\quad}$
- so
- $\sqrt{\underline{\quad}} = 2$
- . 3) \_\_\_\_\_

- A) 2, 4                      B) 4, 2                      C) 2, 2                      D) 4, 4

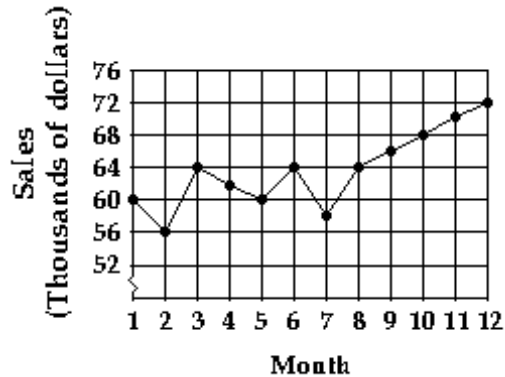
Answer: D

Diff: 0    Type: BI

Use the line graph to answer the question.

- 4) The line graph shows the 2001 sales data for the Big "D" company.

4) \_\_\_\_\_



In the first six months, which month(s) had the highest sales?

- A) Month 12  
B) Month 1, Month 3  
C) Month 6  
D) Month 3, Month 6

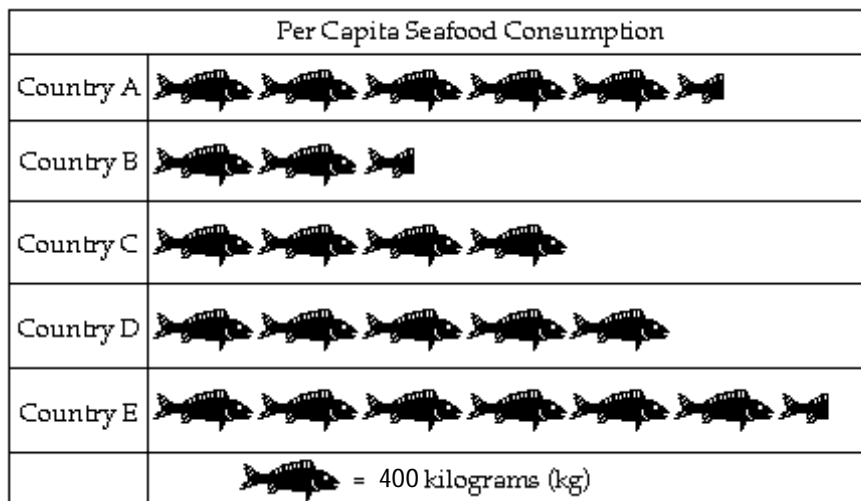
Answer: D

Diff: 0 Type: BI

Use the pictograph to answer the question.

- 5) For selected countries, this pictograph shows approximately how many kilograms of seafood is consumed by each person (per capita) annually.

5) \_\_\_\_\_



What is the approximate seafood consumption in Country D?

- A) 1600 kg  
B) 2000 kg  
C) 2400 kg  
D) 2200 kg

Answer: B

Diff: 0 Type: BI

Solve the problem.

- 6) A survey of 1514 people found that 335 people were planning to travel on Labor Day weekend. How many people were planning to stay home?

6) \_\_\_\_\_

- A) 1179 people  
B) 1079 people  
C) 1749 people  
D) 1849 people

Answer: A

Diff: 0 Type: BI

Fill in the blanks.

7)  $54^2 = \underline{\hspace{1cm}}$  so  $\sqrt{\underline{\hspace{1cm}}} = 54$ .

A) 108, 54

B) 54, 2916

C) 2916, 54

D) 2916, 2916

7) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Round the number as indicated.

8) 545 to the nearest ten

A) 540

B) 560

C) 650

D) 550

8) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

9) 3890 to the nearest hundred

A) 3800

B) 4000

C) 3890

D) 3900

9) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Provide an appropriate response.

10) A number rounded to the nearest thousand is 85,000. What is the largest whole number this could have been before rounding?

10) \_\_\_\_\_

A) 85,500

B) 85,999

C) 85,499

D) 84,999

Answer: C

Diff: 0 Type: BI

Solve the problem.

11) The list price of a car is \$16,012. The manufacturer offers a rebate of \$574. What is the final price of the car?

11) \_\_\_\_\_

A) \$16,486

B) \$15,338

C) \$15,438

D) \$16,586

Answer: C

Diff: 0 Type: BI

12) Last year the hatch-back model of a new car cost \$18,467. This year's model costs \$20,057. How much more does this year's model cost?

12) \_\_\_\_\_

A) \$1490

B) \$37,524

C) \$38,524

D) \$1590

Answer: D

Diff: 0 Type: BI

Estimate the answer by rounding as indicated.

13) Estimate by rounding to the nearest hundred.

13) \_\_\_\_\_

$$\begin{array}{r} 925 \\ - 665 \\ \hline \end{array}$$

A) 1600

B) 200

C) 260

D) 300

Answer: B

Diff: 0 Type: BI

Provide an appropriate response.

14)  $(56 + 89) + 103 = 248$

$56 + (89 + 103) = 248$

This is an example of the \_\_\_\_\_.

A) associative property of addition

C) commutative property of addition

B) commutative property of multiplication

D) associative property of multiplication

Answer: A

Diff: 0 Type: BI

14) \_\_\_\_\_

15) When any nonzero number is divided by 0, the result is \_\_\_\_\_.

A) impossible to compute

C) the nonzero number

B) 0

D) 1

Answer: A

Diff: 0 Type: BI

15) \_\_\_\_\_

Round the number as indicated.

16) 9226 to the nearest ten

A) 9330

B) 9240

C) 9220

D) 9230

Answer: D

Diff: 0 Type: BI

16) \_\_\_\_\_

Divide by using long division.

17)  $17 \overline{) 5825}$

A) 11

B) 342

C) 342 R9

D) 342 R11

Answer: D

Diff: 0 Type: BI

17) \_\_\_\_\_

Simplify the expression by using the order of operations.

18)  $5 + 12 \div 4 + 7 + \frac{0}{8}$

A) 9

B) 14

C) 15

D) 10

Answer: C

Diff: 0 Type: BI

18) \_\_\_\_\_

Estimate the answer by using front end rounding.

19)

$\begin{array}{r} 904 \\ - 552 \\ \hline \end{array}$

A) 350

B) 400

C) 300

D) 352

Answer: C

Diff: 0 Type: BI

19) \_\_\_\_\_

Estimate the answer by rounding as indicated.

20) Estimate by rounding to the nearest hundred.

20) \_\_\_\_\_

$$\begin{array}{r} 609 \\ \times 730 \\ \hline \end{array}$$

A) 444,600

B) 444,570

C) 420,000

D) 1300

Answer: C

Diff: 0 Type: BI

Round the number as indicated.

21) 5150 to the nearest ten-thousand

21) \_\_\_\_\_

A) 100

B) 1,000

C) 10,000

D) 100,000

Answer: C

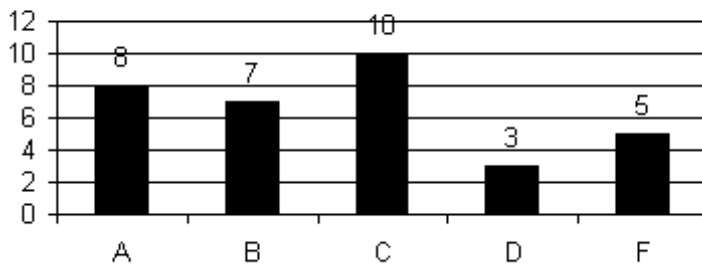
Diff: 0 Type: BI

Use the bar graph to answer the question.

22) The bar graph illustrates the numbers of certain grades earned in Mathematics 100. How many grades of D were earned?

22) \_\_\_\_\_

**Grades Earned In Mathematics 100**



A) 5

B) 3

C) 8

D) 10

Answer: B

Diff: 0 Type: BI

Solve the problem.

23) A travel agent arranged a payment plan for a client. It required a down payment of \$300 and 12 monthly payments of \$384. What was the total cost of the plan?

23) \_\_\_\_\_

A) \$4608

B) \$4808

C) \$4908

D) \$4708

Answer: C

Diff: 0 Type: BI

24) The number of atoms in a slice of cheese is 15,481,241,923. Round this amount to the nearest hundred-million.

24) \_\_\_\_\_

A) 15,480,000,000 atoms

B) 15,481,242,000 atoms

C) 15,481,000,000 atoms

D) 15,500,000,000 atoms

Answer: D

Diff: 0 Type: BI



Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

179 R125  
25)  $187 \overline{) 33,598}$

A) Correct

C) Incorrect; should be 179 R225

B) Incorrect; should be 179 R115

D) Incorrect; should be 180

Answer: A

Diff: 0 Type: BI

25) \_\_\_\_\_

Simplify the expression by using the order of operations.

26)  $7 \cdot (6 - 2) + \sqrt{1}$

A) 57

B) 35

C) 41

D) 29

Answer: D

Diff: 0 Type: BI

26) \_\_\_\_\_

Solve the problem by using addition, subtraction, multiplication, or division as needed.

27) A customer borrowed \$3600 from his credit union for a year. If the interest on the loan was \$324, what were his monthly payments?

A) \$327

B) \$300

C) \$273

D) \$3924

Answer: A

Diff: 0 Type: BI

27) \_\_\_\_\_

Solve the problem.

28) A caterer uses special stacking ovens to prepare large amounts of food. Find the total number of servings that can be prepared in one hour.

Cookies: 24 servings per pan

Number of pans per oven: 6

Pan changes per hour: 6

Number of ovens: 2

A) 288 servings

B) 864 servings

C) 1728 servings

D) 1678 servings

Answer: C

Diff: 0 Type: BI

28) \_\_\_\_\_

29) The gross national product for the United States was \$54,853,701,020,594. Round this amount to the nearest ten-billion.

A) \$54,900,000,000,000

B) \$54,850,000,000,000

C) \$54,853,000,000,000

D) \$50,000,000,000,000

Answer: B

Diff: 0 Type: BI

29) \_\_\_\_\_

Fill in the blanks.

30)  $80^2 = \underline{\hspace{1cm}}$  so  $\sqrt{\underline{\hspace{1cm}}} = 80$ .

A) 80, 80

B) 6400, 6400

C) 6400, 80

D) 80, 6400

Answer: B

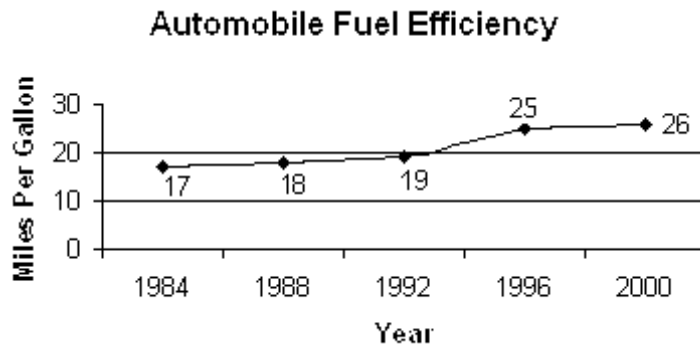
Diff: 0 Type: BI

30) \_\_\_\_\_

Use the line graph to answer the question.

- 31) Beginning with 1984, Lisa purchased a car every four years. The line graph illustrates the average fuel mileage in miles per gallon for each car. Between which two consecutive purchases did the greatest increase occur?

31) \_\_\_\_\_



- A) 1996 to 2000  
 B) It is not possible to answer this question using the line graph.  
 C) 1984 to 1988  
 D) 1992 to 1996

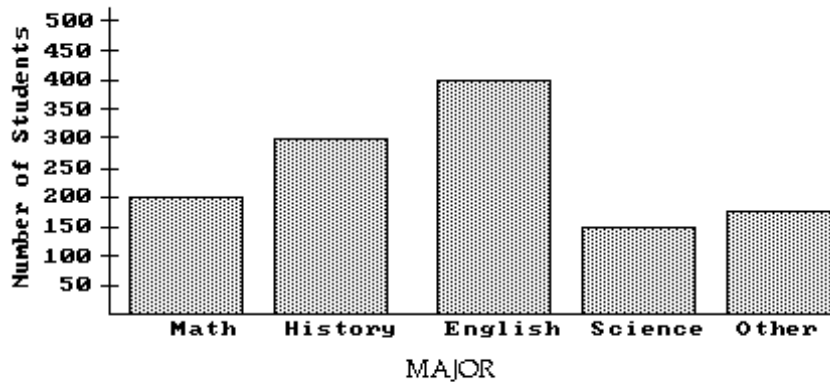
Answer: D

Diff: 0 Type: BI

Use the bar graph to answer the question.

- 32) The bar graph below shows the number of students by major in the College of Arts and Sciences.

32) \_\_\_\_\_



How many students are majoring in History?

- A) 400 students      B) 350 students      C) 300 students      D) 250 students

Answer: C

Diff: 0 Type: BI

Find the square root.

- 33)  $\sqrt{144}$

- A) 11      B) 13      C) 144      D) 12

Answer: D

Diff: 0 Type: BI

33) \_\_\_\_\_

Simplify the expression by using the order of operations.

34)  $12 \cdot \sqrt{36} \cdot \sqrt{49} \div 6 + 15 - 12 + 10$

A) 93

B) 96

C) 94

D) 97

34) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Solve the problem.

35) The school library has an inventory of 48,184 books. If 5170 have been checked out, how many are still on the shelves?

35) \_\_\_\_\_

A) 42,914 books

B) 53,354 books

C) 43,014 books

D) 37,844 books

Answer: C

Diff: 0 Type: BI

Simplify the expression by using the order of operations.

36)  $5 \cdot 5 - 9$

A) 20

B) 16

C) 34

D) 225

36) \_\_\_\_\_

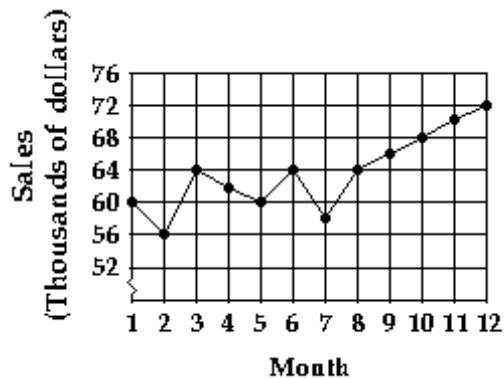
Answer: B

Diff: 0 Type: BI

Use the line graph to answer the question.

37) The line graph shows the 2001 sales data for the Big "D" company.

37) \_\_\_\_\_



Find the increase in sales between month 8 to month 11.

A) \$6000

B) \$8000

C) \$4000

D) \$2000

Answer: A

Diff: 0 Type: BI

Divide by using long division.

38)  $68 \overline{)3468}$

A) 52 R58

B) 51 R59

C) 51

D) 52

38) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI

Decide where the first digit in the quotient would be located. Then without finishing the division, determine which of the three choices is the correct answer.

39)  $616 \overline{)166,956}$

A) 2710

B) 271 R 20

C) 27 R 20

39) \_\_\_\_\_

Answer: B

Diff: 0 Type: MC

Divide by using long division.

40)  $43 \overline{) 56,889}$

A) 1323

B) 1313

C) 1328 R 31

D) 1333 R 39

40) \_\_\_\_\_

Answer: A

Diff: 0 Type: BI

Decide where the first digit in the quotient would be located. Then without finishing the division, determine which of the three choices is the correct answer.

41)  $961 \overline{) 4,730,042}$

A) 4922

B) 49,220

C) 492

41) \_\_\_\_\_

Answer: A

Diff: 0 Type: MC

Identify the exponent and the base, and then simplify the expression.

42)  $8^4$

A) exponent: 4, base: 32, simplified: 4096

B) exponent: 4, base: 8, simplified: 4096

C) exponent: 8, base: 4, simplified: 32

D) exponent: 32, base: 4, simplified: 8

42) \_\_\_\_\_

Answer: B

Diff: 0 Type: BI

Solve the problem by using addition, subtraction, multiplication, or division as needed.

43) At the beginning of the year, Ms. Johnson put \$1753 in the bank. At the end of the year \$579 in interest had been earned. How much money was in the account at the end of the year?

43) \_\_\_\_\_

A) \$1,014,987

B) \$2322

C) \$2332

D) \$1174

Answer: C

Diff: 0 Type: BI

Estimate the answer by rounding as indicated.

44) Estimate by rounding to the nearest ten.

44) \_\_\_\_\_

$$\begin{array}{r} 17 \\ \times 29 \\ \hline \end{array}$$

A) 600

B) 50

C) 490

D) 493

Answer: A

Diff: 0 Type: BI

Divide by using long division.

45)  $34 \overline{) 12,978}$

A) 381 R15

B) 24

C) 381

D) 381 R24

45) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Simplify the expression by using the order of operations.

46)  $3 \cdot 8 + 7 \cdot 8 + 2$

A) 164

B) 1346

C) 82

D) 450

46) \_\_\_\_\_

Answer: C

Diff: 0 Type: BI

Round the number to the nearest ten, nearest hundred, and nearest thousand.

47) 5458

- A) Ten 5000  
Hundred 5500  
Thousand 5000  
C) Ten 5450  
Hundred 5400  
Thousand 6000

- B) Ten 5460  
Hundred 5500  
Thousand 5000  
D) Ten 5460  
Hundred 5400  
Thousand 5000

47) \_\_\_\_\_

Answer: B

Diff: 0 Type: BI

48) 3235

- A) Ten 3240  
Hundred 3200  
Thousand 3000  
C) Ten 3230  
Hundred 3200  
Thousand 3000

- B) Ten 3230  
Hundred 3300  
Thousand 4000  
D) Ten 3240  
Hundred 3300  
Thousand 3000

48) \_\_\_\_\_

Answer: A

Diff: 0 Type: BI

Solve the problem. First use front end rounding. Then find the exact answer.

- 49) The table shows the approximate price for several items that Tracy would like to purchase as gifts for her friends. How much will she need to spend in order to purchase a jacket, a coffee mug, a tee shirt, and basket of assorted nuts and candy?

49) \_\_\_\_\_

Item	Price
Sweatshirt	\$39
Hooded sweatshirt	\$44
Zip-up sweatshirt	\$42
Tee shirt	\$13
Golf shirt	\$33
Jacket	\$61
Golf balls	\$7
Coffee mug	\$12
Nut/candy basket	\$26

- A) Estimate: \$110; exact: \$114  
C) Estimate: \$110; exact: \$99

- B) Estimate: \$100; exact: \$112  
D) Estimate: \$110; exact: \$112

Answer: D

Diff: 0 Type: BI

Solve the problem.

- 50) The Human Resources department of a medium-sized corporation reported that the average age of its employees is 36 years and the average number of hours each employee worked each week is 53 hours. Round each of these numbers to the nearest ten.

50) \_\_\_\_\_

- A) 30 years; 50 hours  
C) 40 years; 60 hours

- B) 30 years; 60 hours  
D) 40 years; 50 hours

Answer: D

Diff: 0 Type: BI

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

$$137 \text{ R}40$$

$$51) 44 \overline{) 6068}$$

- A) Incorrect; should be 137 R41  
C) Incorrect; should be 137 R39

- B) Incorrect; should be 136 R40  
D) Correct

51) \_\_\_\_\_























Answer: D

Diff: 0 Type: BI

Use the pictograph to answer the question.

- 52) The pictograph illustrates the number of cars sold during selected years. Each car represents 50 vehicles sold. How many more cars were sold in 1997 than in 1999?

52) \_\_\_\_\_

Annual Automobile Sales						
Year						
1995						
1996						
1997						
1998						
1999						
2000						

Each car represents 50 vehicles sold

A) 50 cars

B) 200 cars

C) 100 cars

D) 150 cars

Answer: C

Diff: 0 Type: BI

Solve the problem.

- 53) Luciane is driving 631 miles to get home from college. If she drives 345 miles the first day, how many miles remain?

53) \_\_\_\_\_

A) 986 miles

B) 276 miles

C) 286 miles

D) 976 miles

Answer: C

Diff: 0 Type: BI

- 54) Gina is buying a used car that has an advertised price of \$4000. She is buying the car on credit and must make a down payment of \$900 and 24 monthly payments of \$109. What is the total cost of the car?

54) \_\_\_\_\_

A) \$2716

B) \$3516

C) \$3506

D) \$2616

Answer: B

Diff: 0 Type: BI

Simplify the expression by using the order of operations.

$$55) 8^2 + 9^2 + (24 - 5) \cdot 8$$

55) \_\_\_\_\_

A) 1312

B) 297

C) 129

D) 5336

Answer: B

Diff: 0 Type: BI

Decide where the first digit in the quotient would be located. Then without finishing the division, determine which of the three choices is the correct answer.

56)  $34 \overline{) 156,944}$

A) 4616

B) 46,160

C) 462

56) \_\_\_\_\_

Answer: A

Diff: 0 Type: MC

Provide an appropriate response.

57)  $178 + 153 = 331$

$153 + 178 = 331$

This is an example of the \_\_\_\_\_.

A) associative property of multiplication

B) commutative property of multiplication

C) associative property of addition

D) commutative property of addition

Answer: D

Diff: 0 Type: BI

57) \_\_\_\_\_

Decide where the first digit in the quotient would be located. Then without finishing the division, determine which of the three choices is the correct answer.

58)  $82 \overline{) 2870}$

A) 4

B) 35

C) 350

58) \_\_\_\_\_

Answer: B

Diff: 0 Type: MC

Solve the problem.

59) David's company has to ship 4400 boxes of sprinklers. If a truck can hold 550 boxes, how many truckloads does he need to ship all the boxes?

A) 8 truckloads

B) 7 truckloads

C) 6 truckloads

D) 9 truckloads

Answer: A

Diff: 0 Type: BI

59) \_\_\_\_\_

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

50 R314

60)  $887 \overline{) 44,664}$

A) Incorrect; should be 51 R314

B) Correct

C) Incorrect; should be 50 R316

D) Incorrect; should be 50 R315

Answer: B

Diff: 0 Type: BI

60) \_\_\_\_\_

Solve the problem by using addition, subtraction, multiplication, or division as needed.

61) Soap is delivered to the supermarket in cartons which contain 24 individual boxes. Last month the local store received 7 deliveries of 43 cartons. How many individual boxes of soap did it receive?

A) 7224 boxes

B) 9030 boxes

C) 1032 boxes

D) 301 boxes

Answer: A

Diff: 0 Type: BI

61) \_\_\_\_\_

Fill in the blanks.

62)  $14^2 = \underline{\hspace{1cm}}$  so  $\sqrt{\hspace{1cm}} = 14$ .

A) 196, 14

B) 196, 196

C) 14, 196

D) 28, 28

62) \_\_\_\_\_

Answer: B

Diff: 0 Type: BI

Solve the problem.

63) The gross national product for the United States was \$59,278,975,109,739. Round this amount to the nearest ten-million.

63) \_\_\_\_\_

A) \$59,278,980,000,000

B) \$59,278,1e+09

C) \$59,278,975,110,000

D) \$59,278,975,000,000

Answer: A

Diff: 0 Type: BI

Solve the problem by using addition, subtraction, multiplication, or division as needed.

64) Sally is planning a bicycle trip. If she bikes an average of 48 miles a day, find the maximum distance she can cover in 6 days.

64) \_\_\_\_\_

A) 154 miles

B) 288 miles

C) 54 miles

D) 278 miles

Answer: B

Diff: 0 Type: BI

Estimate the answer by using front end rounding.

65)

65) \_\_\_\_\_

$$\begin{array}{r} 709 \\ \times 68 \\ \hline \end{array}$$

A) 49,100

B) 49,000

C) 49,630

D) 48,900

Answer: B























Diff: 0 Type: BI

Use the pictograph to answer the question.

66) The pictograph illustrates the number of miles driven each day for one week. Each car represents 15 miles. How many miles were driven on Wednesday?

66) \_\_\_\_\_

Miles Driven Each Day For One Week

Day						
Monday						
Tuesday						
Wednesday						
Thursday						
Friday						
Saturday						
Sunday						

Each car represents 15 miles

A) 30 miles

B) 60 miles

C) 90 miles

D) 75 miles

Answer: D

Diff: 0 Type: BI



Round the number as indicated.

67) 811,703 to the nearest ten

A) 811,800

B) 811,700

C) 811,710

D) 811,680

67) \_\_\_\_\_

Answer: B

Diff: 0 Type: BI

Provide an appropriate response.

68) Write the largest five-digit number possible using the digits 4, 2, and 8. Use each digit at least once.

68) \_\_\_\_\_

A) 88,482

B) 88,824

C) 88,842

D) 84,882

Answer: C

Diff: 0 Type: BI

Round the number as indicated.

69) 343 to the nearest hundred

69) \_\_\_\_\_

A) 400

B) 300

C) 200

D) 310

Answer: B

Diff: 0 Type: BI

Solve the problem.

70) Jack borrowed \$960 from his brother. Jack's brother wants 12 monthly payments of \$95 to repay the loan. How much extra is Jack's brother charging for the loan?

70) \_\_\_\_\_

A) \$85

B) \$1240

C) \$1140

D) \$180

Answer: D

Diff: 0 Type: BI

Solve the problem. First use front end rounding. Then find the exact answer.

71) The number of vacationers at the lake was 7948 on Friday. If this was 4532 more than on Thursday, how many people were at the lake on Thursday?

71) \_\_\_\_\_

A) Estimate: 12,400 vacationers; exact: 12,480 vacationers

B) Estimate: 3000 vacationers; exact: 3416 vacationers

C) Estimate: 3400 vacationers; exact: 3420 vacationers

D) Estimate: 13,000 vacationers; exact: 12,480 vacationers

Answer: B

Diff: 0 Type: BI

Simplify the expression by using the order of operations.

72)  $9 \cdot \sqrt{36} - 4(9 - 3)$

72) \_\_\_\_\_

A) 102

B) 300

C) 30

D) 78

Answer: C

Diff: 0 Type: BI

Solve the problem.

- 73) A caterer uses special stacking ovens to prepare large amounts of food. Find the total number of servings that can be prepared in one hour. 73) \_\_\_\_\_

Corn muffins: 18 servings per pan

Number of pans per oven: 6

Pan changes per hour: 3

Number of ovens: 2

- A) 216 servings      B) 648 servings      C) 324 servings      D) 598 servings

Answer: B

Diff: 0    Type: BI

Solve the problem by using addition, subtraction, multiplication, or division as needed.

- 74) An employee was paid \$46,801 during the first half of last year. During the second half she was paid \$62,343. How much more was her income during the second half? 74) \_\_\_\_\_

- A) \$109,144      B) \$15,552      C) \$15,542      D) \$109,154

Answer: C

Diff: 0    Type: BI

Round the number as indicated.

- 75) 6806 to the nearest thousand 75) \_\_\_\_\_

- A) 6890      B) 8000      C) 7100      D) 7000

Answer: D

Diff: 0    Type: BI

Solve the problem. First use front end rounding. Then find the exact answer.

- 76) Troy Alvin had \$3118 in his checking account. He wrote checks for \$361, \$528, and \$135 during the course of one week. Find the amount remaining in his account. 76) \_\_\_\_\_

- A) Estimate: \$2070; exact: \$2088      B) Estimate: \$2000; exact: \$2088  
C) Estimate: \$2070; exact: \$2094      D) Estimate: \$2000; exact: \$2094

Answer: D

Diff: 0    Type: BI

Solve the problem.

- 77) Jim bicycled 651 miles in January, 630 miles in February, and 686 miles in March. How many miles did he bicycle? 77) \_\_\_\_\_

- A) 1967 miles      B) 1867 miles      C) 1957 miles      D) 1977 miles

Answer: A

Diff: 0    Type: BI

Simplify the expression by using the order of operations.

- 78)  $5 \cdot 9 + 6(4 + 2) + 5$  78) \_\_\_\_\_

- A) 455      B) 76      C) 86      D) 111

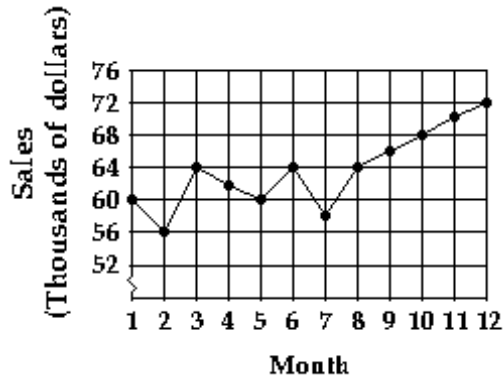
Answer: C

Diff: 0    Type: BI

Use the line graph to answer the question.

79) The line graph shows the 2001 sales data for the Big "D" company.

79) \_\_\_\_\_



Which month had the highest sales?

A) Month 3

B) Month 12

C) Month 8

D) Month 6

Answer: B

Diff: 0 Type: BI

Round the number to the nearest ten, nearest hundred, and nearest thousand.

80) 8892

80) \_\_\_\_\_

A) Ten 8900

Hundred 8800

Thousand 8000

C) Ten 8900

Hundred 8900

Thousand 9000

B) Ten 8890

Hundred 8900

Thousand 9000

D) Ten 8890

Hundred 8800

Thousand 9000

Answer: B

Diff: 0 Type: BI

Round the number as indicated.

81) 348,671 to the nearest ten-thousand

81) \_\_\_\_\_

A) 400,000

B) 340,000

C) 350,000

D) 348,000

Answer: C

Diff: 0 Type: BI

Solve the problem by using addition, subtraction, multiplication, or division as needed.

82) Mr. and Mrs. Gutierrez borrow \$6900 to buy a new car. The loan is to be paid off in 23 equal monthly payments. How much is each payment?

82) \_\_\_\_\_

A) \$6877

B) \$300

C) \$30

D) \$6923

Answer: B

Diff: 0 Type: BI

Simplify the expression by using the order of operations.

83)  $24 \div 6 \cdot 7 \cdot 8 \div (12 - 8)$

83) \_\_\_\_\_

A) 28

B) 224

C) 14

D) 56

Answer: D

Diff: 0 Type: BI

Solve the problem by using addition, subtraction, multiplication, or division as needed.

- 84) A school bookstore ordered 224 copies of an English textbook. If the total cost was \$4256, find the cost of each book. 84) \_\_\_\_\_

A) \$17                      B) \$4032                      C) \$15                      D) \$19

Answer: D

Diff: 0    Type: BI

Provide an appropriate response.

- 85) Write the smallest five-digit number possible using the digits 5, 2, and 9. Use each digit at least once. 85) \_\_\_\_\_

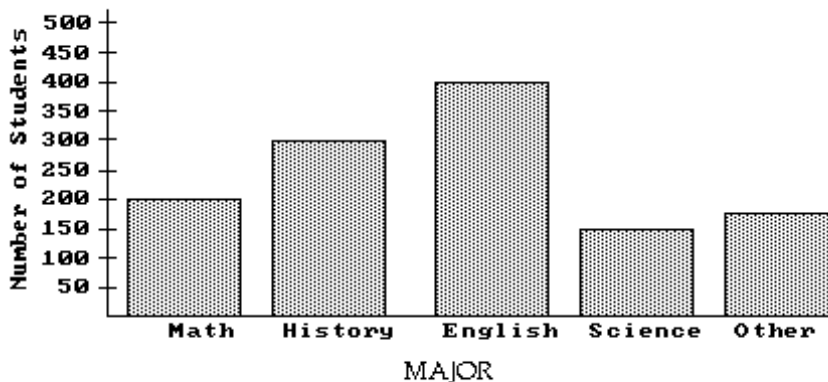
A) 25,229                      B) 22,259                      C) 22,295                      D) 22,592

Answer: B

Diff: 0    Type: BI

Use the bar graph to answer the question.

- 86) The bar graph below shows the number of students by major in the College of Arts and Sciences. 86) \_\_\_\_\_



Which major has about 400 students?

A) Math                      B) Other                      C) English                      D) History

Answer: C

Diff: 0    Type: BI

Simplify the expression by using the order of operations.

- 87)  $8 - 5 + 2 \cdot 6 - 2 \cdot \sqrt{16} \div \sqrt{4}$  87) \_\_\_\_\_

A) 11                      B) 13                      C) 12                      D) 10

Answer: A

Diff: 0    Type: BI

Solve the problem.

- 88) There are 1174 students registered at Lincoln Community College. 537 of them are men. How many women are registered? 88) \_\_\_\_\_

A) 1611 women                      B) 627 women                      C) 1711 women                      D) 637 women

Answer: D

Diff: 0    Type: BI

- 89) A salesperson earned \$350 a week plus a bonus of \$15 for each service contract sold. What is the weekly pay if 6 service contracts were sold? 89) \_\_\_\_\_
- A) \$540                      B) \$440                      C) \$90                      D) \$350
- Answer: B  
Diff: 0    Type: BI

Round the number as indicated.

- 90) 51,858 to the nearest ten-thousand 90) \_\_\_\_\_
- A) 51,850                      B) 50,000                      C) 5                      D) 60,000
- Answer: B  
Diff: 0    Type: BI

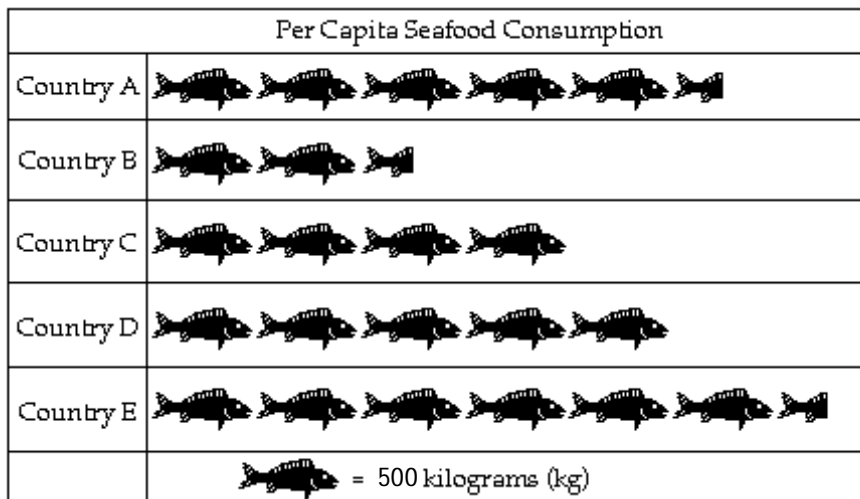
- 91) 40,798 to the nearest ten 91) \_\_\_\_\_
- A) 40,900                      B) 40,790                      C) 40,810                      D) 40,800
- Answer: D  
Diff: 0    Type: BI

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

- 92) 
$$\begin{array}{r} 95 \text{ R}22 \\ 78 \overline{) 7427} \end{array}$$
 92) \_\_\_\_\_
- A) Incorrect; should be 96 R22                      B) Incorrect; should be 95 R17  
C) Correct                      D) Incorrect; should be 95 R23
- Answer: B  
Diff: 0    Type: BI

Use the pictograph to answer the question.

- 93) For selected countries, this pictograph shows approximately how many kilograms of seafood is consumed by each person (per capita) annually. 93) \_\_\_\_\_



Approximately how many more kilograms of seafood is eaten per person in Country E than in Country B?

- A) 2250 kg                      B) 1750 kg                      C) 2000 kg                      D) 1500 kg
- Answer: C  
Diff: 0    Type: BI

Solve the problem. First use front end rounding. Then find the exact answer.

- 94) There are 27,878,400 square feet in one square mile. How many square feet are there in 70 square miles? 94) \_\_\_\_\_
- A) Estimate: 2,100,000,000 square feet; exact: 1,951,488,000 square feet  
 B) Estimate: 1,960,000,000 square feet; exact: 1,951,460,000 square feet  
 C) Estimate: 1,960,000,000 square feet; exact: 1,951,488,000 square feet  
 D) Estimate: 2,100,000,000 square feet; exact: 1,951,460,000 square feet

Answer: A

Diff: 0 Type: BI

Solve the problem.

- 95) One cook can make enough food for 350 people a night. How many cooks are needed to feed 1400 people a night? 95) \_\_\_\_\_
- A) 2 cooks B) 5 cooks C) 3 cooks D) 4 cooks

Answer: D

Diff: 0 Type: BI

Divide by using long division.

- 96)  $400 \overline{)254,258}$  96) \_\_\_\_\_
- A) 635 R258 B) 635 R128 C) 635 D) 258

Answer: A

Diff: 0 Type: BI

Use the pictograph to answer the question.

- 97) This pictograph shows projected sales of compact disks (CDs) for a popular rock band for seven consecutive years. 97) \_\_\_\_\_

Year	Projected CD Sales
2008	⊙⊙
2007	⊙⊙⊙⊙⊙⊙
2006	⊙⊙⊙⊙⊙⊙⊙⊙
2005	⊙⊙⊙⊙⊙⊙⊙⊙⊙
2004	⊙⊙⊙⊙⊙
2003	⊙⊙⊙⊙⊙⊙⊙
2002	⊙⊙⊙
⊙ = 10,000 CDs	

Approximately how many CDs will be sold in 2007?

- A) 6 CDs B) 90,000 CDs C) 6000 CDs D) 60,000 CDs

Answer: D

Diff: 0 Type: BI

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

- 98)  $9343 \overline{)46,717}$  98) \_\_\_\_\_
- A) Correct B) Incorrect; should be 9343 R2  
 C) Incorrect; should be 9347 R4 D) Incorrect; should be 9343 R3

Answer: B

Diff: 0 Type: BI

Solve the problem.

- 99) The number of atoms in a slice of cheese is 13,737,606,715. Round this amount to the nearest ten-thousand.

99) \_\_\_\_\_

- A) 13,737,606,700 atoms  
C) 13,737,606,720 atoms

- B) 13,737,610,000 atoms  
D) 13,738,000,000 atoms

Answer: B

Diff: 0 Type: BI

Simplify the expression by using the order of operations.

100)  $6 \cdot 12 \div \sqrt{36} - 2 \div 2 + (13 - 10)$

100) \_\_\_\_\_

A) 14

B) 8

C) 13

D) 16

Answer: A

Diff: 0 Type: BI

Solve the problem by using addition, subtraction, multiplication, or division as needed.

- 101) A spreadsheet contains 608 entries in a rectangular array which has 32 rows. How many entries are in each row?

101) \_\_\_\_\_

- A) 19,456 entries per row  
C) 29 entries per row

- B) 19 entries per row  
D) 576 entries per row

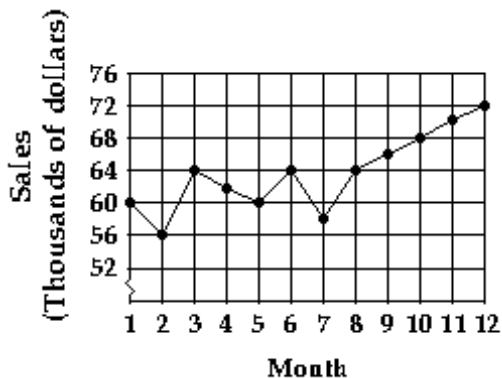
Answer: B

Diff: 0 Type: BI

Use the line graph to answer the question.

- 102) The line graph shows the 2001 sales data for the Big "D" company.

102) \_\_\_\_\_



What were the total sales for the twelve month period?

A) \$768,000

B) \$760,000

C) \$704,000

D) \$764,000

Answer: D

Diff: 0 Type: BI

Solve the problem.

- 103) The total budget for a certain government program was \$13,117,708,629. Round this amount to the nearest million.

103) \_\_\_\_\_

A) \$13,117,709,000

B) \$13,118,000,000

C) \$13,117,708,600

D) \$13,117,708,630

Answer: B

Diff: 0 Type: BI

Decide where the first digit in the quotient would be located. Then without finishing the division, determine which of the three choices is the correct answer.

104)  $85 \overline{) 55,335}$   
A) 6510  
Answer: B  
Diff: 0    Type: MC

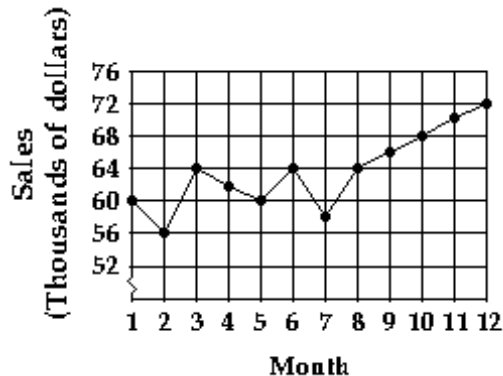
B) 651

C) 65

104) \_\_\_\_\_

Use the line graph to answer the question.

105) The line graph shows the 2001 sales data for the Big "D" company.



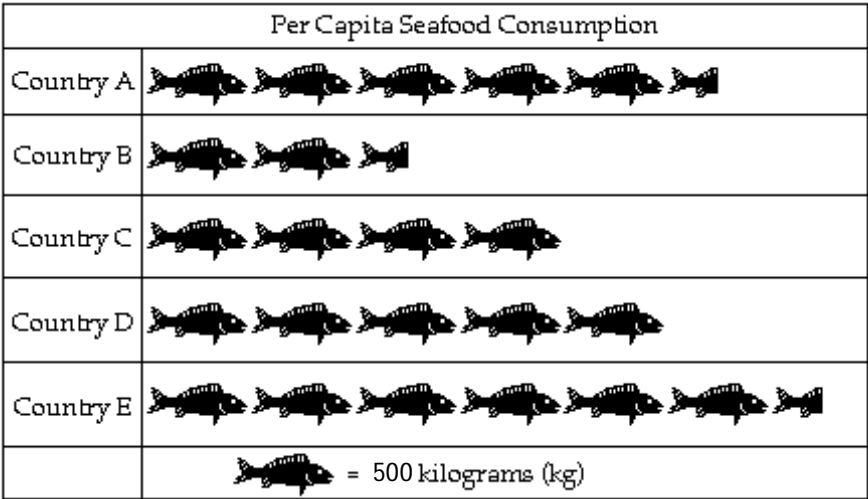
What was the difference between the highest and lowest monthly sales?

A) \$20,000                      B) \$14,000                      C) \$16,000                      D) \$12,000

Answer: C  
Diff: 0    Type: BI

Use the pictograph to answer the question.

106) For selected countries, this pictograph shows approximately how many kilograms of seafood is consumed by each person (per capita) annually.



Which country consumes the most seafood?

A) Country D                      B) Country A                      C) Country B                      D) Country E

Answer: D  
Diff: 0    Type: BI



Round the number to the nearest ten, nearest hundred, and nearest thousand.

107) 36,590

107) \_\_\_\_\_

- A) Ten 36,600  
Hundred 36,600  
Thousand 40,000  
C) Ten 36,590  
Hundred 36,600  
Thousand 36,000

- B) Ten 36,590  
Hundred 36,600  
Thousand 37,000  
D) Ten 36,600  
Hundred 36,500  
Thousand 36,000

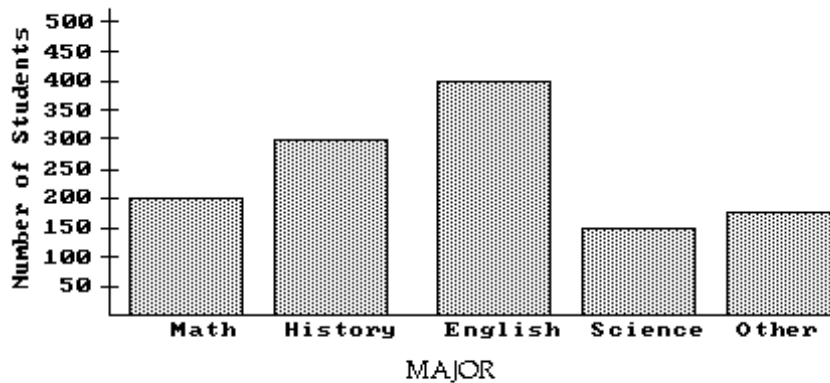
Answer: B

Diff: 0 Type: BI

Use the bar graph to answer the question.

108) The bar graph below shows the number of students by major in the College of Arts and Sciences.

108) \_\_\_\_\_



About how many students are in the College of Arts and Sciences?

- A) 1325 students B) 1100 students C) 1050 students D) 1225 students

Answer: D

Diff: 0 Type: BI

Solve the problem.

109) A caterer uses special stacking ovens to prepare large amounts of food. Find the total number of servings that can be prepared in one hour.

109) \_\_\_\_\_

Pizza: 8 servings per pan  
Number of pans per oven: 5  
Pan changes per hour: 3  
Number of ovens: 2

- A) 120 servings B) 80 servings C) 240 servings D) 190 servings

Answer: C

Diff: 0 Type: BI

Use the line graph to answer the question.

- 110) Beginning with 1996, Tom calculated his 18-hole average golf score each year. What was his average score for 18 holes in 1997? 110) \_\_\_\_\_



- A) It is not possible to answer this question using the line graph.  
 B) 87  
 C) 92  
 D) 90

Answer: D

Diff: 0 Type: BI

Solve the problem.

- 111) A television offer advertised a set of knives for \$20 down and \$8 a month for 6 months. What is the total cost of the knives? 111) \_\_\_\_\_

- A) \$68 B) \$58 C) \$78 D) \$48

Answer: A

Diff: 0 Type: BI

- 112) A particular freight elevator can safely carry 805 pounds. How many 115-pound bundles of wood can be safely carried by this elevator? 112) \_\_\_\_\_

- A) 2 bundles B) 7 bundles C) 3 bundles D) 5 bundles

Answer: B

Diff: 0 Type: BI

- 113) Sue had \$572 in her bank account. She deposited a \$649 paycheck and a \$380 paycheck. How much did she deposit and what was her new balance? 113) \_\_\_\_\_

- A) \$1029; \$1601 B) \$1029; \$1591 C) \$1221; \$1601 D) \$952; \$1501

Answer: A

Diff: 0 Type: BI

Solve the problem. First use front end rounding. Then find the exact answer.

- 114) Find the total amount Lisa stashed in an envelope on her dresser if she placed \$373 there at the end of each week, for 7 weeks. 114) \_\_\_\_\_

- A) Estimate: \$2800; exact: \$2590 B) Estimate: \$2590; exact: \$2611  
 C) Estimate: \$2590; exact: \$2590 D) Estimate: \$2800; exact: \$2611

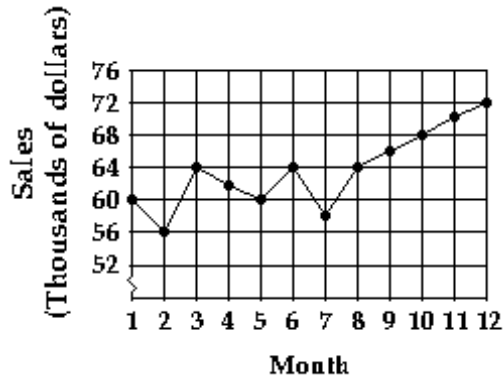
Answer: D

Diff: 0 Type: BI

Use the line graph to answer the question.

115) The line graph shows the 2001 sales data for the Big "D" company.

115) \_\_\_\_\_



Which month had the lowest sales?

A) Month 7

B) Month 3

C) Month 2

D) Month 5

Answer: C

Diff: 0 Type: BI

Round the number as indicated.

116) 454 to the nearest hundred

A) 600

B) 500

C) 400

D) 490

116) \_\_\_\_\_

Answer: B

Diff: 0 Type: BI

Solve the problem.

117) A caterer uses special stacking ovens to prepare large amounts of food. Find the total number of servings that can be prepared in one hour.

117) \_\_\_\_\_

Lasagne: 12 servings per pan

Number of pans per oven: 6

Pan changes per hour: 2

Number of ovens: 4

A) 288 servings

B) 576 servings

C) 526 servings

D) 144 servings

Answer: B

Diff: 0 Type: BI

Divide by using long division.

118)  $900 \overline{)229,779}$

A) 255

B) 255 R299

C) 279

D) 255 R279

118) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Use the pictograph to answer the question.

119) This pictograph shows projected sales of compact disks (CDs) for a popular rock band for seven consecutive years.

119) \_\_\_\_\_

Year	Projected CD Sales
2004	⊙⊙
2003	⊙⊙⊙⊙⊙⊙
2002	⊙⊙⊙⊙⊙⊙⊙⊙
2001	⊙⊙⊙⊙⊙⊙⊙⊙⊙
2000	⊙⊙⊙⊙⊙
1999	⊙⊙⊙⊙⊙⊙⊙
1998	⊙⊙⊙

⊙ = 100,000 CDs

In which year will the greatest number of CDs be sold?

- A) 2001                      B) 2004                      C) 2002                      D) 1999

Answer: A

Diff: 0    Type: BI

Divide by using long division.

120)  $816 \overline{) 484,438}$

120) \_\_\_\_\_

- A) 593 R527                      B) 550                      C) 593                      D) 593 R550

Answer: D

Diff: 0    Type: BI

Solve the problem.

121) The amount of taxes collected in one year is \$11,660,487,533. Round this amount to the nearest hundred-thousand.

121) \_\_\_\_\_

- A) \$11,660,490,000                      B) \$11,660,000,000                      C) \$11,660,487,500                      D) \$11,660,500,000

Answer: D

Diff: 0    Type: BI

Simplify the expression by using the order of operations.

122)  $9^3 \cdot 2^2 + (13 - 4) \cdot 3$

122) \_\_\_\_\_

- A) 135                      B) 5859                      C) 2943                      D) 2967

Answer: C

Diff: 0    Type: BI

Use multiplication to check the answer. If an answer is incorrect, find the correct answer.

123)  $\begin{array}{r} 616 \text{ R}80 \\ 94 \overline{) 57,981} \end{array}$

123) \_\_\_\_\_

- A) Incorrect; should be 617                      B) Correct  
C) Incorrect; should be 616 R81                      D) Incorrect; should be 616 R77

Answer: D

Diff: 0    Type: BI

$$124) \begin{array}{r} 25 \text{ R}257 \\ 816 \overline{) 20,657} \end{array}$$

- A) Incorrect; should be 25 R258  
C) Incorrect; should be 30 R597

- B) Incorrect; should be 25 R157  
D) Correct

124) \_\_\_\_\_

Answer: D

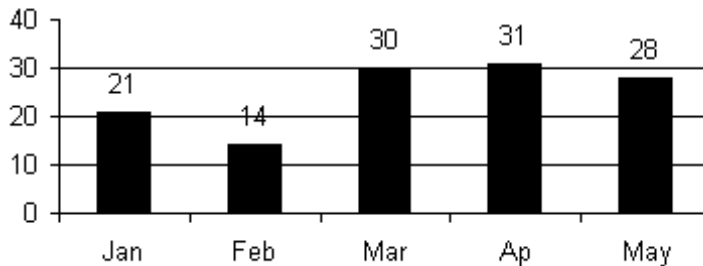
Diff: 0 Type: BI

Use the bar graph to answer the question.

- 125) The bar graph illustrates the number of minutes of cell phone usage during selected months. How many minutes were used during the month of February?

125) \_\_\_\_\_

**Monthly Minutes of Cell Phone Use**



A) 31

B) 14

C) 21

D) 35

Answer: B

Diff: 0 Type: BI

Solve the problem by using addition, subtraction, multiplication, or division as needed.

- 126) Last year an employee's salary was \$6000. From that, a total of \$1620 was withheld for taxes and social security. What was her monthly take-home pay?

126) \_\_\_\_\_

A) \$365

B) \$635

C) \$4380

D) \$500

Answer: A

Diff: 0 Type: BI

Round the number as indicated.

- 127) 3623 to the nearest hundred

127) \_\_\_\_\_

A) 3700

B) 3610

C) 3500

D) 3600

Answer: D

Diff: 0 Type: BI

Simplify the expression by using the order of operations.

- 128)  $18 \div 3 \cdot (12 - 4)$

128) \_\_\_\_\_

A) 48

B) 96

C) 76

D) 68

Answer: A

Diff: 0 Type: BI

Estimate the answer by using front end rounding.

129)

$$\begin{array}{r} 6975 \\ 58 \\ 788 \\ + 7983 \\ \hline \end{array}$$

129) \_\_\_\_\_

A) 15,810

B) 15,800

C) 15,804

D) 15,860

Answer: D

Diff: 0 Type: BI

Estimate the answer by rounding as indicated.

130) Estimate by rounding to the nearest ten.

130) \_\_\_\_\_

$$\begin{array}{r} 59 \\ 68 \\ 16 \\ 47 \\ + 32 \\ \hline \end{array}$$

A) 230

B) 222

C) 220

D) 200

Answer: A

Diff: 0 Type: BI

Round the number as indicated.

131) 54,008 to the nearest thousand

131) \_\_\_\_\_

A) 54,100

B) 54,000

C) 54,010

D) 55,000

Answer: B

Diff: 0 Type: BI

Identify the exponent and the base, and then simplify the expression.

132)  $15^3$

132) \_\_\_\_\_

A) exponent: 45, base: 3, simplified: 15

B) exponent: 3, base: 45, simplified: 3375

C) exponent: 15, base: 3, simplified: 45

D) exponent: 3, base: 15, simplified: 3375

Answer: D

Diff: 0 Type: BI

Divide by using long division.

133)  $73 \overline{) 31,156}$

133) \_\_\_\_\_

A) 426 R58

B) 426 R31

C) 426

D) 58

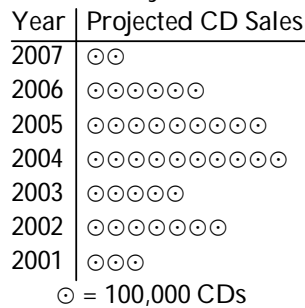
Answer: A

Diff: 0 Type: BI

Use the pictograph to answer the question.

- 134) This pictograph shows projected sales of compact disks (CDs) for a popular rock band for seven consecutive years.

134) \_\_\_\_\_



Approximately how many fewer CDs will be sold in 2003 than in 2005?

- A) 500,000 CDs      B) 400,000 CDs      C) 4 CDs      D) 600,000 CDs

Answer: B

Diff: 0    Type: BI

Divide by using long division.

- 135)  $400 \overline{) 143,600}$   
A) 360

B) 3590

C) 359

D) 358

135) \_\_\_\_\_

Answer: C

Diff: 0    Type: BI

Solve the problem by using addition, subtraction, multiplication, or division as needed.

- 136) Raisa's car used 16 gallons of gasoline when she drove it 224 miles. How many miles per gallon did it get?

136) \_\_\_\_\_

- A) 23 miles per gallon  
C) 14 miles per gallon

- B) 208 miles per gallon  
D) 16 miles per gallon

Answer: C

Diff: 0    Type: BI

Provide an appropriate response.

- 137) When front end rounding is used, a whole number rounds to 9000. What is the smallest number this could have been before front end rounding?

137) \_\_\_\_\_

A) 8999

B) 9499

C) 9500

D) 8500

Answer: D

Diff: 0    Type: BI

Estimate the answer by rounding as indicated.

- 138) Estimate by rounding to the nearest hundred.

138) \_\_\_\_\_

723  
575  
990  
752  
+ 653  
\_\_\_\_\_

A) 3800

B) 3690

C) 3693

D) 3700

Answer: A

Diff: 0    Type: BI

Provide an appropriate response.

139)  $(23 \times 16) \times 12 = 4416$

$23(16 \times 12) = 4416$

This is an example of the \_\_\_\_\_.

- A) commutative property of addition  
C) commutative property of multiplication

- B) associative property of addition  
D) associative property of multiplication

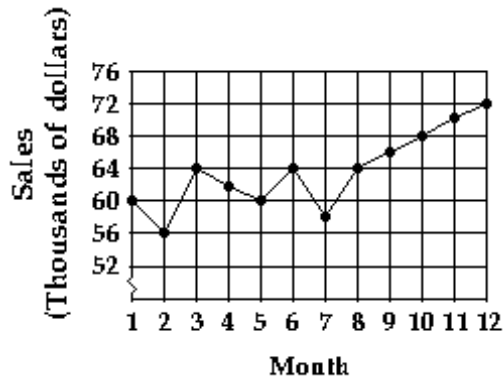
Answer: D

Diff: 0 Type: BI

139) \_\_\_\_\_

Use the line graph to answer the question.

140) The line graph shows the 2001 sales data for the Big "D" company.



What were the total sales for the first 6 months?

- A) \$424,000      B) \$302,000      C) \$364,000      D) \$366,000

Answer: D

Diff: 0 Type: BI

140) \_\_\_\_\_

Divide by using long division.

141)  $47 \overline{) 6673}$

- A) 141 R36      B) 141      C) 141 R46      D) 46

Answer: C

Diff: 0 Type: BI

141) \_\_\_\_\_

Round the number to the nearest ten, nearest hundred, and nearest thousand.

142) 83,289

- |          |        |          |        |
|----------|--------|----------|--------|
| A) Ten   | 83,290 | B) Ten   | 83,280 |
| Hundred  | 83,300 | Hundred  | 83,200 |
| Thousand | 83,000 | Thousand | 84,000 |
| C) Ten   | 83,280 | D) Ten   | 83,290 |
| Hundred  | 83,300 | Hundred  | 83,280 |
| Thousand | 83,300 | Thousand | 84,000 |

Answer: A

Diff: 0 Type: BI

142) \_\_\_\_\_

Simplify the expression by using the order of operations.

143)  $3 \cdot \sqrt{64} \cdot \sqrt{16} \div 4 \cdot \sqrt{9} + 6$

- A) 30      B) 14      C) 78      D) 72

Answer: C

Diff: 0 Type: BI

143) \_\_\_\_\_



Solve the problem. First use front end rounding. Then find the exact answer.

- 144) A particular model of side-loading washing machine costs \$170 more than a top-loading machine. If the top-loading machine costs \$289, find the cost of the side-loading machine. 144) \_\_\_\_\_
- A) Estimate: \$120; exact: \$119                      B) Estimate: \$100; exact: \$119  
C) Estimate: \$500; exact: \$459                      D) Estimate: \$460; exact: \$459

Answer: C

Diff: 0    Type: BI

- 145) An assembly line can produce 367 bicycles each hour. At this rate find the number of bicycles produced in 24 hours. 145) \_\_\_\_\_
- A) Estimate: 8880 bicycles; exact: 7340 bicycles  
B) Estimate: 8880 bicycles; exact: 8808 bicycles  
C) Estimate: 148,000 bicycles; exact: 7340 bicycles  
D) Estimate: 8000 bicycles; exact: 8808 bicycles

Answer: D

Diff: 0    Type: BI

Round the number as indicated.

- 146) 568 to the nearest thousand 146) \_\_\_\_\_
- A) 100,000                      B) 10,000                      C) 100                      D) 1,000

Answer: D

Diff: 0    Type: BI

Solve the problem.

- 147) Each gallon of shingle stain covers 120 square feet. How many gallons are needed to cover 960 square feet? 147) \_\_\_\_\_
- A) 7 gallons                      B) 8 gallons                      C) 9 gallons                      D) 6 gallons

Answer: B

Diff: 0    Type: BI

Round the number to the nearest ten, nearest hundred, and nearest thousand.

- 148) 6483 148) \_\_\_\_\_
- |          |      |          |      |
|----------|------|----------|------|
| A) Ten   | 6480 | B) Ten   | 6490 |
| Hundred  | 6400 | Hundred  | 6400 |
| Thousand | 6000 | Thousand | 7000 |
| C) Ten   | 6480 | D) Ten   | 6490 |
| Hundred  | 6500 | Hundred  | 6500 |
| Thousand | 6000 | Thousand | 6000 |

Answer: C

Diff: 0    Type: BI

Simplify the expression by using the order of operations.

- 149)  $12 \cdot \sqrt{81} - 15 \cdot \sqrt{9}$  149) \_\_\_\_\_
- A) 63                      B) 153                      C) 927                      D) 837

Answer: A

Diff: 0    Type: BI

Round the number as indicated.

150) 64,192 to the nearest thousand

A) 74,000

B) 65,000

C) 64,100

D) 64,000

150) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

151) 7087 to the nearest thousand

A) 7100

B) 7000

C) 8000

D) 6900

151) \_\_\_\_\_

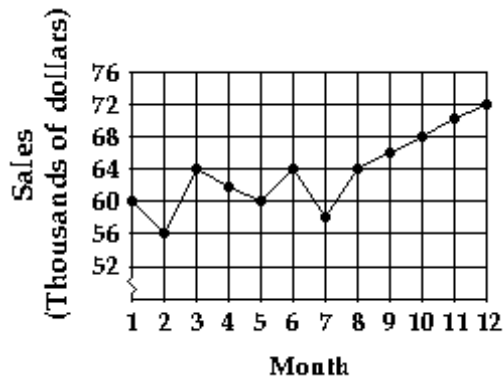
Answer: B

Diff: 0 Type: BI

Use the line graph to answer the question.

152) The line graph shows the 2001 sales data for the Big "D" company.

152) \_\_\_\_\_



Find the decrease in sales between month 3 to month 5.

A) \$400

B) \$2000

C) \$4000

D) \$1000

Answer: C

Diff: 0 Type: BI

Solve the problem.

153) The gross national product for the United States was \$59,561,557,897,302. Round this amount to the nearest hundred-billion.

153) \_\_\_\_\_

A) \$60,000,000,000,000

B) \$59,560,000,000,000

C) \$59,561,000,000,000

D) \$59,600,000,000,000

Answer: D

Diff: 0 Type: BI

Round the number as indicated.

154) 5126 to the nearest ten

A) 5120

B) 5140

C) 5230

D) 5130

154) \_\_\_\_\_

Answer: D

Diff: 0 Type: BI

Solve the problem.

155) An employee was paid \$3103 during the first half of last year. During the second half she was paid \$91,640. How much more was her income during the second half?

155) \_\_\_\_\_

A) \$94,743

B) \$88,548

C) \$88,537

D) \$94,754

Answer: C

Diff: 0 Type: BI

Estimate the answer by rounding as indicated.

156) Estimate by rounding to the nearest ten.

156) \_\_\_\_\_

$$\begin{array}{r} 92 \\ - 37 \\ \hline \end{array}$$

A) 55

B) 60

C) 130

D) 50

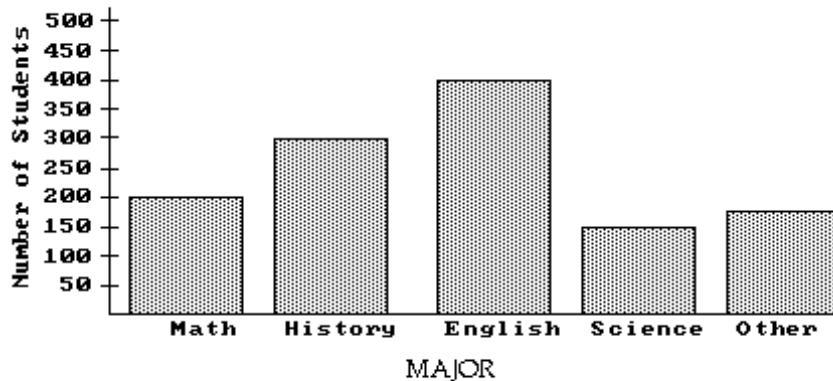
Answer: D

Diff: 0 Type: BI

Use the bar graph to answer the question.

157) The bar graph below shows the number of students by major in the College of Arts and Sciences.

157) \_\_\_\_\_



Find the total number of students majoring in either History or Science.

A) 550 students

B) 350 students

C) 400 students

D) 450 students

Answer: D

Diff: 0 Type: BI

Provide an appropriate response.

158)  $109 \times 80 = 8720$

158) \_\_\_\_\_

$80 \times 109 = 8720$

This is an example of the \_\_\_\_\_.

A) commutative property of multiplication

B) commutative property of addition

C) associative property of multiplication

D) associative property of addition

Answer: A

Diff: 0 Type: BI

Round the number as indicated.

159) 69,320 to the nearest hundred

159) \_\_\_\_\_

A) 69,400

B) 69,200

C) 69,310

D) 69,300

Answer: D

Diff: 0 Type: BI

160) 21,654,274 to the nearest million

160) \_\_\_\_\_

A) 21,654,000

B) 21,000,000

C) 22,000,000

D) 21,700,000

Answer: C

Diff: 0 Type: BI

Estimate the answer by using front end rounding.

161)

$$\begin{array}{r} 679 \\ - 458 \\ \hline \end{array}$$

161) \_\_\_\_\_

A) 250

B) 150

C) 200

D) 179

Answer: C

Diff: 0 Type: BI

Decide where the first digit in the quotient would be located. Then without finishing the division, determine which of the three choices is the correct answer.

162)  $46 \overline{)211,554}$

A) 460

B) 4599

C) 45,990

162) \_\_\_\_\_

Answer: B

Diff: 0 Type: MC

Provide an appropriate response.

163) When any nonzero number is divided by 1, the result is \_\_\_\_\_.

A) impossible to compute

B) the nonzero number

C) 0

D) 1

163) \_\_\_\_\_

Answer: B

Diff: 0 Type: BI

Solve the problem.

164) Sun Woo has \$9610 in his checking account. How much is in the account after he writes a check for \$797?

164) \_\_\_\_\_

A) \$10,407

B) \$10,417

C) \$8813

D) \$8713

Answer: C

Diff: 0 Type: BI