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Section P.1

- rational
- Irrational
- prime
- variables, constants
- terms
- Yes. $|5-2| = |2-5| \Rightarrow |3| = |-3| = 3$
- (c) Commutative Property of Addition: $a+b=b+a$
- (d) Associative Property of Multiplication: $(ab)c=a(bc)$
- (e) Additive Inverse Property: $a+(-a)=0$
- (b) Distributive Property: $a(b+c)=ab+ac$
- (f) Associative Property of Addition: $(a+b)+c=a+(b+c)$
- (a) Multiplicative Identity Property: $a \cdot 1 = a$
- $\{-9, -\frac{7}{2}, 5, \frac{2}{3}, \sqrt{2}, 0, 1, -4, -1\}$
 - Natural numbers: 5, 1
 - Whole numbers: 5, 0, 1
 - Integers: $-9, 5, 0, 1, -4, -1$
 - Rational numbers: $-9, -\frac{7}{2}, 5, \frac{2}{3}, 0, 1, -4, -1$
 - Irrational number: $\sqrt{2}$
- $\{\sqrt{5}, -7, -\frac{7}{2}, 0, 3.12, \frac{5}{4}, -2, -8, 3\}$
 - Natural number: 3
 - Whole numbers: 0, 3
 - Integers: $-7, 0, -2, -8, 3$
 - Rational numbers: $-7, -\frac{7}{2}, 0, 3.12, \frac{5}{4}, -2, -8, 3$
 - Irrational number: $\sqrt{5}$
- $\{2.3030030003\dots, 0.7575, -4.63, \sqrt{10}, -2, 0.3, 8\}$
 - Natural number: 8
 - Whole number: 8
 - Integers: $-2, 8$
 - Rational numbers: $0.7575, -4.63, -2, 0.3, 8$
 - Irrational numbers: $2.3030030003\dots, \sqrt{10}$
- $\{-\pi, -\frac{1}{3}, \frac{6}{3}, \frac{1}{2}\sqrt{2}, -7.5, -2, 3, -3\}$
 - Natural numbers: $\frac{6}{3}$ (since it equals 2), 3
 - Whole numbers: $\frac{6}{3}, 3$
 - Integers: $\frac{6}{3}, -2, 3, -3$
 - Rational numbers: $-\frac{1}{3}, \frac{6}{3}, -7.5, -2, 3, -3$
 - Irrational numbers: $-\pi, \frac{1}{2}\sqrt{2}$
- $\{25, -17, -\frac{12}{5}, \sqrt{9}, 3.12, \frac{1}{2}\pi, 6, -4, 18\}$
 - Natural numbers: $25, \sqrt{9}=3, 6, 18$
 - Whole numbers: $25, \sqrt{9}=3, 6, 18$
 - Integers: $25, -17, \sqrt{9}, 6, -4, 18$
 - Rational numbers: $25, -17, -\frac{12}{5}, \sqrt{9}, 3.12, 6, -4, 18$
 - Irrational number: $\frac{1}{2}\pi$
- $\frac{5}{16} = 0.3125$
- $\frac{17}{4} = 4.25$
- $\frac{41}{333} = 0.123$
- $\frac{3}{7} = 0.428571$
- $-\frac{100}{11} = -9.09$
- $-\frac{218}{33} = -6.60$

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100%

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Answers to All Exercises

Appendix B

Appendix B.1 (page B7)

- measure, central tendency
- modes, bimodal
- variance, standard deviation
- Quartiles
- Mean: About 8.86; median: 8; mode: 7
- Mean: About 33.86; median: 33; mode: 32
- Mean: About 10.29; median: 8; mode: 7
- Mean: About 32.43; median: 33; mode: 32
- Mean: 9; median: 8; mode: 7
- Mean: 34; median: 33; mode: 32
- (a) The mean; Answers will vary.
(b) Mean: About 14.86; median: 14; mode: 13
Each is increased by 6.
(c) Each will increase by k .
- Mean: \$67.14; median: \$65.35
- Mean: 320; median: 320; mode: 320
- Mean: 3.07; median: 3; mode: 3
- (a) Jay: 199.67; Hank: 199.67; Buck: 229.33
(b) 209.56 (c) 202
- (a) Mean: \$459,167; modes: \$425,000, \$500,000, \$550,000;
median: \$462,500
(b) The median; Answers will vary.
- Answers will vary. Sample answer: {4, 4, 10}

Appendix B.2 (page B11)

Answers to All Exercises Ans1

43. (a) Upper quartile: 51
Lower quartile: 47

(b)

44. (a) Upper quartile: 28
Lower quartile: 21.5

(b)

45.

46.

47.

48.

49. Original design:

New design:

From the plots, you can see that the lifetimes of the sample units made by the new design are greater than the lifetimes of the sample units made by the original design. (The median lifetime increased by more than 12 months.)

Appendix B.2 (page B11)

Ans1 (1 / 9)

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