

Aufmann6e\_SM.pdf - Foxit Reader

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## Chapter 1: Real Numbers and Variable Expressions

### Prep Test

- 127.16
- $3416 + 42,561 + 537 = 46,514$
- $5004 - 487 = 4517$
- $407 \times 28 = 11,396$
- $11,684 \div 23 = 508$
- 24
- 4
- $3 \cdot 7$
- $\frac{4}{10} = \frac{2}{5}$
- iv Division by 0 is undefined.

### Section 1.1

#### Concept Check

- left
  - right
- positive
  - negative
- absolute
- Add the absolute values. The sign is the sign of the addends.
- Find the absolute value of each number. Subtract the smaller number from the larger one. The sign of the final answer is the sign of the number with the larger absolute value.
- Minus* is the operation subtraction; *negative* indicates the opposite of a number.
- Add the opposite of the second integer to the first integer.
- positive
  - negative

- $-14 < 16$
- $-12 < 1$
- $35 > 28$
- $42 > 19$
- $-42 < 27$
- $0 > -31$
- $-17 < 0$
- $53 > -46$
- $-27 > -38$
- $-23 < -8$   
 $-18 < -8$   
 $-8 = -8$   
 $0 > -8$   
 The elements  $-23$  and  $-18$  are less than  $-8$ .
- $-33 < -10$   
 $-24 < -10$   
 $-10 = -10$   
 $0 > -10$   
 The elements  $-33$  and  $-24$  are less than  $-10$ .
- $-33 < -10$   
 $-13 < -10$   
 $21 > -10$   
 $37 > 10$   
 The elements 21 and 37 are greater than  $-10$ .
- $-27 < -15$   
 $-14 > -15$   
 $14 > -15$   
 $27 > -15$   
 The elements  $-14$ , 14, and 27 are greater than  $-15$ .
- (i)  $n$  is positive.
- (iv)  $n$  can be positive, negative, or 0.

### Objective B Exercises