

# Practice 2-1

**Simplify each expression using mental math.**

1.  $4 \cdot 13 \cdot 25$   
\_\_\_\_\_

2.  $700 + 127 + 300$   
\_\_\_\_\_

3.  $68 + 85 + 32$   
\_\_\_\_\_

4.  $2 \cdot 3 \cdot 4 \cdot 5$   
\_\_\_\_\_

5.  $-14 + 71 + 29 + (-86)$   
\_\_\_\_\_

6.  $125 \cdot 9 \cdot 8$   
\_\_\_\_\_

7.  $20 \cdot 7 \cdot 5$   
\_\_\_\_\_

8.  $217 + 545 - 17$   
\_\_\_\_\_

9.  $39 + 27 + 11$   
\_\_\_\_\_

10.  $4 \cdot 12 \cdot 250$   
\_\_\_\_\_

11.  $19 + 0 + (-9)$   
\_\_\_\_\_

12.  $-6 \cdot 1 \cdot 30$   
\_\_\_\_\_

**Write the letter of the property shown.**

13.  $14(mn) = (14m)n$  \_\_\_\_\_

a. commutative property of addition

14.  $19 + 11 = 11 + 19$  \_\_\_\_\_

b. associative property of addition

c. commutative property of multiplication

15.  $k \cdot 1 = k$  \_\_\_\_\_

d. associative property of multiplication

e. additive identity

f. multiplicative identity

16.  $(x + y) + z = x + (y + z)$  \_\_\_\_\_

17.  $65t = t(65)$  \_\_\_\_\_

18.  $p = 0 + p$  \_\_\_\_\_

19.  $n = 1 \cdot n$  \_\_\_\_\_

20.  $(x + p) + (r + t) = (r + t) + (x + p)$  \_\_\_\_\_

21.  $(h + 0) + 4 = h + 4$  \_\_\_\_\_

22.  $x + yz = x + zy$  \_\_\_\_\_

**Evaluate each expression using mental math.**

23.  $x(yz)$ , for  $x = 8, y = -9, z = 5$  \_\_\_\_\_

24.  $q + r + s$ , for  $q = 46, r = 19, s = 54$  \_\_\_\_\_

25.  $a(b)(-c)$ , for  $a = 7, b = -2, c = 15$  \_\_\_\_\_