

Additional Practice**Investigation 4****Accentuate the Negative**

1. Find each missing value.

a. $13 - (8 - 2) = 13 - 8 - \square$

b. $-6 - (5 - 3) = -6 - 5 - \square$

c. $12 - (6 - -1) = 12 - 6 - \square$

d. $-22 - (-11 - -4) = -22 - -11 - \square$

e. What pattern do you see?

2. Find the correct result for each of the following.

a. $-5 \times 7 + 10 \div 2$

b. $(2 + 4)^2 \times 5 - 2$

c. $3\frac{2}{5} \times 2\frac{1}{2} - 5^3 + 10$

d. $6 \times (3 - 5)^2 + 8$

e. $-6 \times (7 - (-4 + 2))$

f. $-9 \times 8 \div 2^3 + -5$

3. Find the answers to the following expressions.

a. $5 \times 8 \div 2 \div 2$

b. $3 + -5 \times 4 - 2$

c. $5 \times 2 \times -3 + -12 \div 6$

d. $-4 \times (3 + -10) - 3^2$

e. $(8 - 20) \div 2^2 - 5 \times -3$

f. $20 - (60 \div (-2 \times 30) - 8) \times 2^2$

g. $12 - 8 + 4 - 3$

h. $4^2 + \frac{-10}{2} + 13$

4. Find each missing value.

a. $4 \times 8 + 4 \times 22 = 4 \times \square$

b. $-12 \times 43 + -12 \times -3 = -12 \times \square$

c. $-6 \times \square = -6 \times 15 + -6 \times -5$

d. $-0.4 \times \square = -0.4 \times -0.7 + -0.4 \times -0.3$

Additional Practice *(continued)***Investigation 4****Accentuate the Negative**

5. Find each missing value.

a. $2 \times (-7 + 4) = 2 \times -7 + 2 \times 4 = \underline{\quad} + \underline{\quad} = \underline{\quad}$

b. $1 \times (-7 + 4) = \underline{\quad} \times -7 + \underline{\quad} \times 4 = \underline{\quad} + \underline{\quad} = \underline{\quad}$

c. $0 \times (-7 + 4) = \underline{\quad} \times -7 + \underline{\quad} \times 4 = \underline{\quad} + \underline{\quad} = \underline{\quad}$

d. $-1 \times (-7 + 4) = \underline{\quad} \times -7 + \underline{\quad} \times 4 = \underline{\quad} + \underline{\quad} = \underline{\quad}$

e. $-2 \times (-7 + 4) = \underline{\quad} \times -7 + \underline{\quad} \times 4 = \underline{\quad} + \underline{\quad} = \underline{\quad}$

f. What patterns do you see? Explain your thinking.

6. Fill in the missing parts to make the sentences true.

a. $8 \times (6 + 4) = (8 \times \underline{\quad}) + (8 \times 4)$

b. $7 \times (x + 3) = (7 \times \underline{\quad}) + (\underline{\quad} \times 3)$

c. $(-9 \times 5) + (\underline{\quad} \times 7) = -9 \times (\underline{\quad} + 7)$

d. $(x \times 4) + (x \times 5) = \underline{\quad} \times (4 + 5)$

e. $8x + 12x = x \times (\underline{\quad} + \underline{\quad})$

7. Use the Distributive Property to write an expression equal to each of the following:

a. $-3 \cdot (4 + -7)$

b. $(-5 \cdot 3) - (-5 \cdot -13)$

c. $10 \cdot (-3 + 5)$

d. $(-12x) + (4x)$

e. $2 \cdot (2 - -4)$

f. $(x) - (4x)$