

Homework

Activity 1

Write a general statement for the properties shown.

Model Multiplicative Property of Zero

Examples: $1 \cdot 0 = 0$ $2 \cdot 0 = 0$ $3 \cdot 0 = 0$ **Answer:** $n \cdot 0 = 0$

1. Additive Inverse Property

Examples:

$$5 + -5 = 0$$

$$10 + -10 = 0$$

$$2 + -2 = 0$$

2. Identity Property of Addition

Examples:

$$3 + 0 = 3$$

$$\frac{2}{3} + 0 = \frac{2}{3}$$

$$6,000 + 0 = 6,000$$

3. Multiplicative Inverse Property

Examples:

$$2 \cdot \frac{1}{2} = 1$$

$$3 \cdot \frac{1}{3} = 1$$

$$5 \cdot \frac{1}{5} = 1$$

Activity 2

Use PEMDAS and integer rules to evaluate the numeric expressions.

Remember to do diagnostics first, then go to the Algebra Toolbox.

1. $-6 \cdot -6 + -6 - 6$

2. $5 - 10 + -7$

3. $8 + -72 \div 9 - 1$

4. $-24 \div (-8 - -2) + -2$

5. $18 - 25 + 4 - -1$

Activity 3

Tell the volume of each shape.

1. height = 10 inches

Base = 15 square inches



2. height = 12 inches

Base = 21 square inches



Activity 4 • Distributed Practice

Solve.

1. $2 - -2 + -2 = a$

2. $4^2 + 6 - 5 = b$

3. $(-3 + -1) \cdot (-5 + 4) = c$

4. $\frac{6}{1} \div \frac{1}{2} = d$

5. $\frac{2}{1} \cdot \frac{1}{2} = e$

6. $-\frac{1}{3} \cdot \frac{1}{3} = f$

7. $(-3 + -4) \cdot -2 = g$

8. $\frac{8}{1} \cdot \frac{1}{8} = h$