Homework

Activity 1

Evaluate the algebraic expressions by substituting the given value for the variable and then simplifying.

Model $x + 2x + 3x$ for $x = 2$

Answer: Substitute: $2 + \mathbf{2 \cdot 2} + 3 \cdot 2$

Simplify: $2 + 4 + \mathbf{3 \cdot 2}$

$\mathbf{2 + 4} + 6$

$\mathbf{6 + 6} = 12$

1. Evaluate $x + 10 + x + 5$ for $x = -5$.
2. Evaluate $4w + w - 3$ for $w = -2$.
3. Evaluate $14 + 2z + 21$ for $z = 10$.

Activity 2

Evaluate the expressions by simplifying them and then substituting the value for the variable.

Model $2x - x + 3 + 2x$ for $x = -1$

Answer: Simplify: $2x - x + 2x + 3$

$x + 2x + 3$

$3x + 3$

Substitute: $3 \cdot -1 + 3$

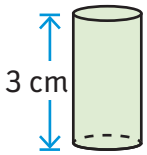
$-3 + 3 = 0$

1. Evaluate $2x + 3 + 4x + 5$ for $x = -5$.
2. Evaluate $w + w - 3$ for $w = -2$.
3. Evaluate $z + 3z + 8$ for $z = 10$.

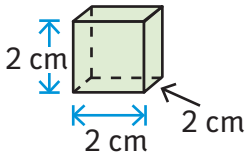
Homework

Activity 3

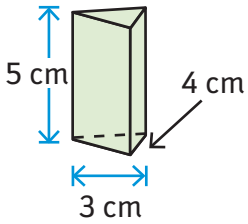
Find the volume for each object given the Base and the height.

1. 

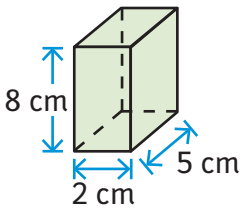
If the Base (the area of the circle) is 6 cm^2, what is the volume of the cylinder?

2. 

If the Base (the area of the square) is 4 cm^2, what is the volume of the cube?

3. 

If the Base (the area of the triangle) is 6 cm^2, what is the volume of the triangular prism?

4. 

If the Base (the area of the rectangle) is 10 cm^2, what is the volume of the rectangular prism?

Activity 4 • Distributed Practice

Solve.

1. $6 - -2 = a$
2. $\frac{2}{5} \cdot \frac{1}{2} = b$
3. $\frac{1}{3} \div \frac{1}{6} = c$
4. $(3 \cdot 6) - 4^2 = d$
5. $(8 \cdot 2) \div 4 = e$
6. $\frac{1}{4} - -\frac{2}{4} = f$
7. $-7 + -1 + 7 = g$
8. $16 \div 4 \div 4 = h$