

Name _____ Date _____

**Skills Maintenance****Substitution****Activity 1**

Substitute the value for the variable in each of the expressions, then solve the problems.

Model

Evaluate $3m$ if $m = -2$.
 $3 \cdot -2 = -6$

1. Evaluate $4x$ if $x = 10$. _____
2. Evaluate $-2 - w$ if $w = -5$. _____
3. Evaluate $-3a$ if $a = -2$. _____
4. Evaluate $4 - h$ if $h = -5$. _____
5. Evaluate $n \div -5$ if $n = -45$. _____

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**Apply Skills****Substitution and Evaluating Algebraic Expressions****Activity 1**

Evaluate each of the expressions using two methods.

In Method 1, simplify and then substitute. In Method 2, substitute and then simplify.

1. Evaluate $3x + 7 + 2x + 10$ for $x = -2$.

Method 1: Simplify and then substitute.

Answer _____

Method 2: Substitute and then simplify.

Answer _____

2. Evaluate $-4 - x - -3 + 2x$ for $x = 1$.

Method 1: Simplify and then substitute.

Answer _____

Method 2: Substitute and then simplify.

Answer _____

3. Evaluate $-x + 2x - 5 \cdot -3 + -x$ for $x = -1$.

Method 1: Simplify and then substitute.

Answer _____

Method 2: Substitute and then simplify.

Answer _____

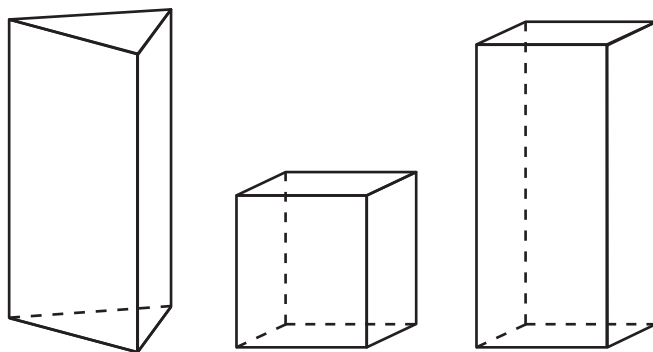
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Problem-Solving Activity

Bases and the Volume of Prisms

Use paper models to find the area of three different prisms. When you put the prisms together, they should look like this:

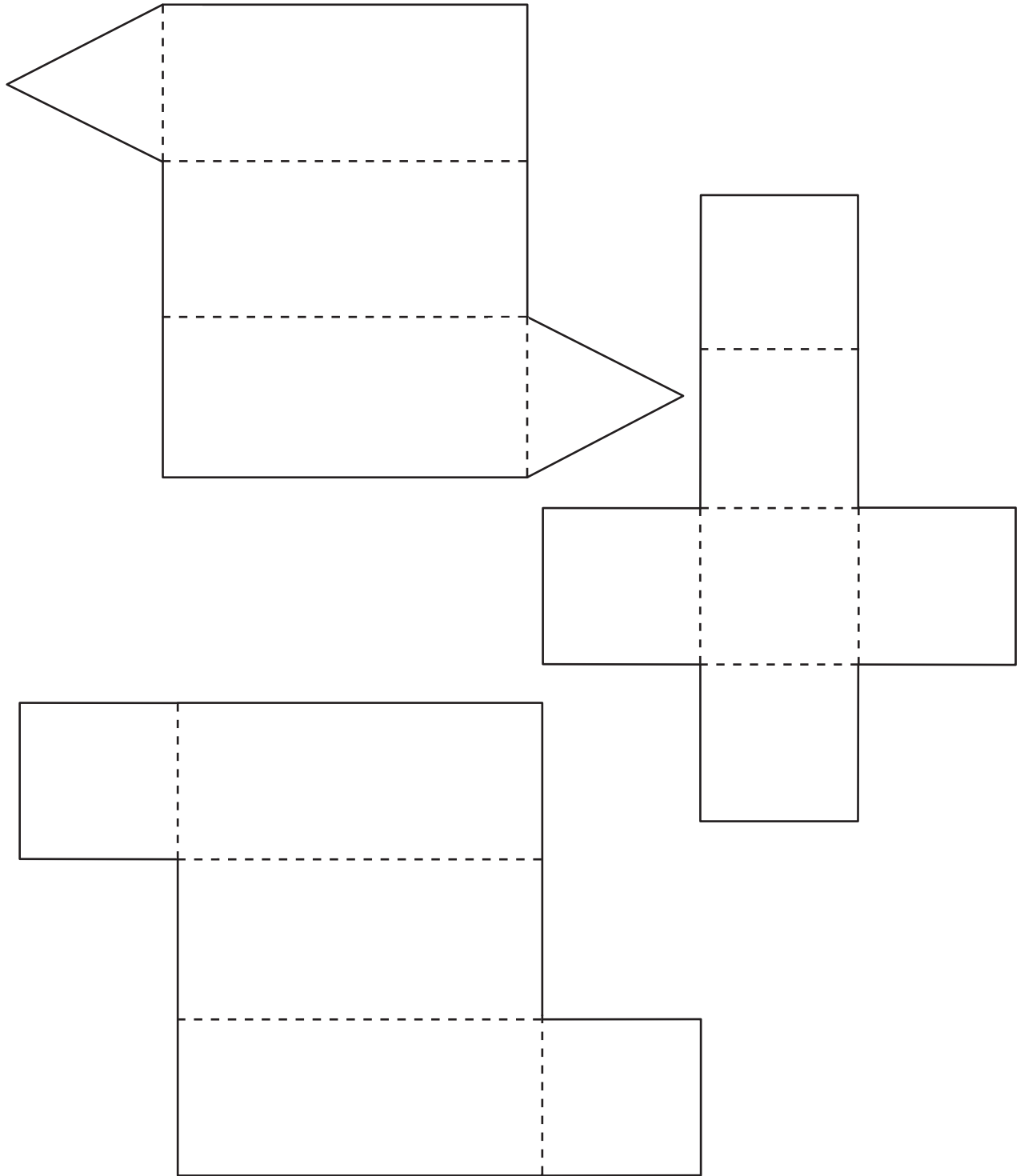


Use a metric ruler to measure the base and height of each prism. Measure the dimensions to the closest centimeter and round your measurement, if necessary. Remember to use these basic formulas for the base:

$$\text{Area of a triangle} = \frac{1}{2} \cdot b \cdot h$$

$$\text{Area of a square or rectangle} = b \cdot h$$

	Triangular Prism	Cube	Rectangular Prism
Base			
Height			
Volume			



mBook Reinforce Understanding
Use the mBook *Study Guide* to review lesson concepts.