

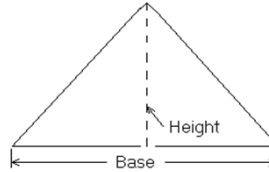
# MasterMath

Name \_\_\_\_\_  
Date \_\_\_\_\_

## Using Formulas to Solve Problems

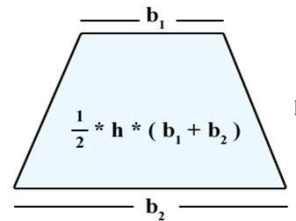
1. The formula for the area of a triangle is one-half x base x height ( $\frac{1}{2} \times b \times h$ ). Find the area of these triangles:

base	height	area
6	5	
9	12	
12	4	



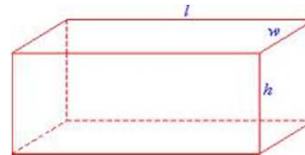
2. The area of a trapezoid is  $A = \frac{1}{2} \times h \times (b_1 + b_2)$ . Find the Area of these trapezoids:

height	base 1	base 2	Area
6	12	10	
5	2	4	
9	8	6	
3	2	10	



3. The volume of a rectangular prism is height (h) x width (w) x length (l). Find the volume of these prisms:

height	width	length	Volume
2	3	8	
6	3	5	
2	10	20	



4. To calculate a car's speed (MPH, or miles per hour), you divide the miles (M) it travels by the time it takes the car to travel that far (H). See if you can fill in the blanks below:

miles traveled	time required	MPH
90	2	
180	3	
200		50
600	6	
	3	9

$$\text{MPH} = \frac{\text{miles traveled}}{\text{time required}}$$

5. You are going on a trip to Mexico, and you want to convert your dollars (d) into pesos (p). Your bank tells you that the exchange rate is 11 pesos for one dollar. You have \$500 dollars. How many pesos can you get for \$500? Write a formula, then solve.

formula	solution

