Tutor-USA.com Worksheet
Pre-Algebra
Using Formulas

Name: _____
Date: _____

1) What is the formula for the perimeter of a rectangle?

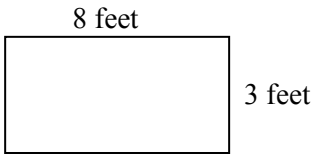
2) What is the formula for the area of a rectangle?

3) What is the formula for the area of a triangle?

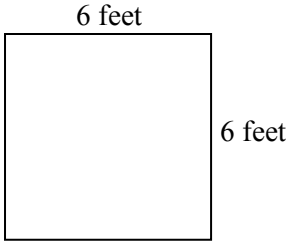
4) What is the formula for the area of a circle?

5) What is the formula for the circumference of a circle?

6) Find the perimeter and area of the rectangle.



7) Find the perimeter and area of the square.



8) Find the area of a triangle with base = 10 ft and height = 30 ft. Draw a sketch of this triangle.

9) Find the area and circumference of a circle with radius = 5 in. Draw a sketch of this circle.

10) Evaluate the formula $T = \frac{x}{14} + 22$ for $x = 42$

11) Evaluate the formula $T = (n + n^2) \div 24$ when $n = 24$

12) Use the formula $R = 2s^2 \div 8$ to find R when $s = 4$

13) The formula $D = 1.5 \times (s + s^2) \div 20$ is used to determine the approximate distance is takes a car to stop when traveling on a wet road.

If a car is traveling at 15 mph on a wet road, find its stopping distance.

14) A car is traveling at 40 mph on a wet road. Will the stopping distance be longer or shorter than when it travels at 45 mph?

Answer Key

1) $P = 2(l + w)$
2) $A = bh$
3) $A = \frac{1}{2}bh$
4) $A = \pi r^2$
5) $C = 2\pi r$ or $C = \pi d$
6) $P = 22\,ft; A = 24\,ft^2$
7) $P = 24\,ft; A = 36\,ft^2$
8) $A = 150\,ft^2$; Check students work
9) $C = 10\pi\,ft$; $A = 25\pi\,ft^2$; Check students work
10) 25
11) 25
12) 4
13) 18
14) Shorter

