1) What is the area formula for finding the area of a Parallelogram?
   \[ A = b \times h \]

2) What is the area formula for finding the area of a Rectangle?
   \[ A = b \times h \quad \text{OR} \quad A = l \times w \]

3) What is the area formula for finding the area of a Square?
   \[ A = b \times h \quad \text{OR} \quad A = l \times w \]

4) What is the area formula for finding the area of a Triangle?
   \[ A = \frac{1}{2} b \times h \]

5) What is the area formula for finding the area of a Trapezoid?
   \[ A = \frac{1}{2} (b_1 + b_2) \times h \]

6) Explain in your own words how you find the PERIMETER of any shape?

   Example answers:
   - Adding up all the measurements on the outside of a shape.
   - Adding up all the sides.
   - Adding up all the sides to find the distance around a shape.
7) If a triangle has a height of 12 inches and a base of 15.75 inches, what is the area of the triangle?

\[ A = \frac{1}{2}bh \]
\[ A = \frac{1}{2} \times 15.75 \times 12 \]
\[ A = 94.5 \text{ square inches} \]

8) If a square has a side measurement of 12.38 cm, what is the

   a) Area of the square:
   \[ A = b \times h \]
   \[ A = 12.38 \times 12.38 \]
   \[ A = 153.2644 \text{ square cm} \]

   b) Perimeter of the square:
   \[ P = 12.38 + 12.38 + 12.38 + 12.38 \]
   OR
   \[ P = 12.38 \times 4 \]
   \[ P = 49.52 \text{ cm} \]

9) If a rectangle has a base of 123 mm and a height of 47 mm, what is

   a) Area of the rectangle:
   \[ A = bh \]
   \[ A = 123 \times 47 \]
   \[ A = 5,781 \text{ square mm} \]

   b) Perimeter of the rectangle:
   \[ P = 123 + 123 + 47 + 47 \]
   OR
   \[ P = 2 \times 123 + 2 \times 47 \]
   \[ P = 340 \text{ mm} \]

Continued on next page
10) A trapezoid has a top base of 12 feet, a bottom base of 24 feet and a height of 8.5 feet. What is the area of the trapezoid?

$$A = \frac{1}{2} \times (b_1 + b_2) \times h$$

$$A = \frac{1}{2} \times (12 + 24) \times 8.5$$

$$A = \frac{1}{2} \times 36 \times 8.5$$

$$A = 153 \text{ square feet}$$

11) Which of the following is the definition of a trapezoid?

a) A quadrilateral and the opposite sides are parallel.
b) A quadrilateral with four right angles.
c) A quadrilateral with exactly one set of parallel sides.
d) A quadrilateral with opposite sides are equal.

12) Which of the following is the definition of a rhombus?

a) A polygon with four equal sides and four right angles.
b) A polygon with four equal sides and opposite sides are parallel.
c) A polygon with four acute angles
d) A polygon with two equal sides.

13) Which of the following is the definition of an octagon?

A) A four sided shape.
B) A three sided shape.
C) A ten sided shape.
D) A(n) eight sided shape.

Continued on next page.
14) A triangle has the following measurements:

**Should have been D - when I copied and pasted my answers, I forgot to change the area number. - Sorry about that.**

Each of the sides is equal to 14 cm and the base is equal to 18 cm and it has a height of 9 cm.

\[ A = \frac{1}{2}bh \]
\[ A = \frac{1}{2} \times 18 \times 9 \]
\[ A = 81 \text{ square cm} \]

Based on this information which of the following is true?

a) The area of the triangle is 126 square cm and the perimeter is 41 cm

b) The area of the triangle is 252 square cm and the perimeter is 46 cm

c) The area of the triangle is 126 square cm and the perimeter is 37 cm

d) The area of the triangle is 81 square cm and the perimeter is 46 cm

15) Which of the following is true? *(May have more than 1 answer)*

a) \( \frac{1}{2} \) of a square =s the area of a triangle.

b) \( \frac{1}{2} \) of a parallelogram =s the area of a rectangle.

c) \( \frac{1}{2} \) of a trapezoid =s the area of a parallelogram

d) \( \frac{1}{2} \) of a rectangle =s the area of a triangle.

16) Write something here - can be anything!

The weather today is going to be 75 degrees! Yard work awaits, flowers to plant, weeds to pull and grass to mow. Looks like Spring/Summer is finally here! ENJOY THE LONG WEEKEND EVERYONE!

MISS YOU ALL!