

# 6th Grade Math Assessment

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

## 1. Computing the following

$$\begin{array}{cccc} 810 \div 3 = & 4.8 \div 0.6 = & 0.25 \times 4 = & \frac{1}{2} - \frac{1}{4} = \\ \frac{6}{7} \div \frac{1}{2} = & \frac{3}{8} + \frac{5}{8} = & \frac{3}{8} \times 3 = & 3.6 \times 0.5 = \\ \frac{2}{5} + \frac{2}{7} = & 0.9 \times 100 = & 3.2 \div 0.08 = & 2 \div \frac{4}{9} = \end{array}$$

## 2. Solve the following equations

$$\frac{4}{5}x - \frac{1}{4}x = 2.2 \qquad \frac{1}{3}x + \frac{3}{4} = \frac{7}{8} \qquad 1.2 \times 8 - 3x = 2.4$$

## 3. Convert the following measures

1.3 square kilometers = (     ) hectares

2 tons and 60 kilograms = (     ) tons

4.22 liters - 3.78 liters = (     ) milliliters

2 hours 45 minutes = (     ) hours

4. A cube with a side length of 1.5 meters is cut into smaller cubes with a side length of 3 centimeters. How many small cubes can be obtained?
5. A cylinder and a cone have the same base and height. The sum of their volumes is  $300 \text{ cm}^3$ . What would be the volume of the cylinder and cone respectively?
6. A fruit salad is made with apples, oranges, and bananas in the ratio 3:2:1. To make 24 kg of fruit salad, how much kilograms of apples, oranges, and bananas are needed respectively?
7. A KitchenAid stand mixer originally costs \$300 dollars. How much will it cost with a 15% off coupon?
8. Unfold the side of the cylinder along its height. Find the length and width of the resulting rectangle. What's the lateral surface area of the cylinder?  
Calculate the volume of the cylinder.

