RATIO AND PROPORTION

Choose the Correct options:

1. Solve the proportion:

$$\frac{2}{7} = \frac{c}{28}$$

   a. 4
   b. 8
   c. 14
   d. 10

2. Solve for x

$$\frac{9}{36} = \frac{x}{24}$$

   a. x=6
   b. x =1/6
   c. x = 7
   d. x=9

3. Patrick has 2 black, 3 red, and 5 white toy cars. What is the ratio of red toy cars to all the toy cars?
   a. 3:5
   b. 1:3
   c. 3:11
   d. 3:10

4. For every 3 cups of rice you need 2 cups of water, if you use 12 cups of rice, how much water will you need.
   a. 4
   b. 8
   c. 24
   d. 6

5. A cake recipe calls for 1.5 cups of milk and 3 cups of flour. Seth made a mistake and used 5 cups of flour. How many cups of milk should he use to keep the proportions correct?
   a. 2.5 cups milk
   b. 1.75 cups milk
   c. 2 cups flour
   d. 2.25 cups milk

6. Every 7 days, you work 40 hours. How many hours do you work over 30 days?
   a. 52.5
   b. 4.75
   c. 171.4
   d. 8.5

7. Hamburger sells for 3 pounds for $6. If Alicia buys 10 pounds of hamburger, how much will she pay?
   a. $30
   b. $20
   c. $60

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d. $10

8. What is it called when two or more of the same units are being compared?
   a. Ratio
   b. Proportion
   c. Unit Rate
   d. All of these

9. There are 4 birds and 6 snakes. What is the ratio of birds to snakes?
   a. 6/4
   b. 2/3
   c. 1/3
   d. 10/16

10. A scale drawing of a billboard uses the scale 4 cm:9 ft. The length of the billboard in the drawing is 11 cm. How long is the actual billboard?
   a. 13 ft
   b. 20.75 ft
   c. 24.75 ft
   d. 22 ft

11. Courtney's summer camp has 2 canoes for every 5 campers. If there are 70 campers in all, which proportion can be used to calculate how many canoes there are at the camp?
   a. 5/2 = 70/x
   b. 2/5 = 70/x
   c. 2/x = 70/5
   d. 2/70 = 5/x

12. In an animal shelter, the ratio of cats to dogs is 3 to 5. If there are a total of 25 dogs at the shelter, how many cats do they have?
   a. 15
   b. 18
   c. 21
   d. 32

13. Cann Electronics has all of their electronics on sale for 20% off. If a computer originally cost $1,050, what is the new price?
   a. $210
   b. $840
   c. $787
   d. $1,260

14. Solve the proportion.
$$\frac{k}{6} = \frac{15}{18}$$
   a. k=5
   b. k=3.3333333
   c. k=60
   d. k=90

15. Solve the proportion.
$$\frac{33}{p} = \frac{3}{28}$$
   a. p=31.3
   b. p=308

c. p=924
d. p=532

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