

Questions 1 – 2: Answer *Yes* or *No* to the following questions.

1. Are the following fractions equal? _____

$$\frac{2}{3} \text{ and } \frac{10}{18}$$

2. Are the following fractions proportional? _____

$$\frac{6}{7} \text{ and } \frac{23}{28}$$

Questions 3 – 6:

If the two quantities are in proportion, find the missing value and fill in the blank.

3. $\frac{\quad}{8} = \frac{12}{16}$

4. $\frac{\quad}{6} = \frac{2}{3}$

5. $\frac{12}{20} = \frac{\quad}{10}$

6. $\frac{2}{\quad} = \frac{10}{15}$

Questions 7 – 10: PLEASE SHOW ALL WORK OR EXPLAIN YOUR ANSWER.

7. The ratio of bikes to helmets is 9: 8. _____
If there are 36 bikes, how many helmets are there?
8. The ratio of men to women is 4: 3. _____
If there are 16 men, how many women are there?
9. The ratio of cats to dogs is 42: 192. _____
If there are 32 dogs, find the number of cats.
10. Venus and Serena are professional tennis players. This year, _____
Venus has won 22 out of her 38 matches, while Serena has
won 18 out of her 32 matches. Is the ratio of wins to losses
the same for both players? (*Yes or No*)

Name _____

11. Complete the ratio table below for the ratio $8:\frac{2}{7}$

8	16	24	
$\frac{2}{7}$			$\frac{8}{7}$

12. David is making perfume to sell. He is using sandalwood and _____
rose oil in the ratio $2:\frac{1}{5}$. How much sandalwood oil will he need
if he wants to use 1 cup of rose oil?