

Name: _____

SHOW ALL OF YOUR WORK!!!

1.

In a box of Smarties, there are 8 red ones and 4 green ones. What is the ratio of the number of green ones to the number of red ones? Write your answer as a fraction and reduce the result.

2.

At a summer camp, there are 100 boys and 125 girls. What is the ratio of the number of boys to the number of girls? Write your answer as a fraction and reduce the result.

3.

Given the ratios below, determine which one is equivalent to 4 : 3.

$$\frac{8}{5}, \frac{5}{4}, \frac{12}{8}, \frac{16}{12}$$

4.

Given the ratios below, determine which one is equivalent to 3 : 5.

$$\frac{6}{9}, \frac{14}{25}, \frac{9}{15}, \frac{12}{16}$$

5.

The following situation is directly proportional. Hilary buys three coffees for \$6. How much will she pay for two coffees?

6.

A lawn that has an area of 70 m² can be fertilized with 10 L of liquid fertilizer. How many litres of liquid fertilizer are required to fertilize a lawn that has an area of 21 m²?

7.

It takes 5 onions to make 4 L of french onion soup. In a proportional situation, how many onions do we need to make 12 L of french onion soup?

8.

The following situation is directly proportional. Lesley-Anne can do 40 math problems in 2 hours. How long will it take her to do an entire book of math problems if it has 300 problems?

9.

D'Angelo makes a scale drawing of his room. In real life, the room is 12 ft. long and 10 ft. wide. In D'Angelo's drawing, the room is 6 in. long. What measure should the width be?

10.

The recipe for a 'Banana Smoothie' is given below. It will serve 4 people. Modify this recipe so it serves 6 people.

- 1000 mL of skim milk
- 75 g of yogurt
- 8 bananas

11.

Which of these tables of values represents a proportional relationship?

x	y
2	5
4	10
8	20

x	y
2	8
4	16
8	32

x	y
2	1
4	2
8	4

12.

Which of these tables of values represents a proportional relationship?

x	y
2	8
4	10
8	14

x	y
1	5
3	15
5	25

x	y
3	9
5	25
7	49

13.

The table below represents a proportional situation. Use a proportion to determine the value of a .

x	y
15	39
25	a
40	104

14.

The table below represents a proportional situation. Use a proportion to determine the value of a .

x	y
6	15
10	25
16	a

16.

A pallet of bottled water contains 72 cases and costs \$480. Each case contains 24 bottles. Use a proportion to calculate the cost of 1 bottle of water.



15.

Jermaine is stacking cans for a display in the grocery store. He places 1 can by itself 1 stack high. Then he places 3 cans 2 stacks high, 6 cans 3 stacks high and so on.

Are the number of cans proportional to the number of stacks in this pattern?

