2 Practice Test

For #1 to #4, circle the best answer.

1. The ratio of Jared's stamps to Paulo's stamps is $4:7$.
    Jared has 36 stamps.
    How many stamps does Paulo have?

    Set up a proportion:
    $$\frac{\text{Jared's stamps}}{\text{Paulo's stamps}}$$

    A 21   **B** 63
    C 84   **D** 99

2. A robot can make 27 toy cars in 9 min.
    Which is the unit rate?

    A 27 cars/9 min   **B** 3 cars

    C 3 cars per min   **D** $\frac{1}{3}$ car/min

3. In the school choir, the ratio of girls to boys is $17:8$.
    What percent of the choir are boys?

    First, find the total number of students.

    A 17%   **B** 25%
    C 32%   **D** 47%

4. Look at the figure. What is the ratio of 2-digit numbers in the
    black hexagon compared to the total number of 2-digit numbers?
    Write your answer in lowest terms.

    A $3:8$ **B** $8:3$
    C $6:16$ **D** $16:6$

Complete the sentences in #5 and #6.

5. There are 30 g of sugar in 200 mL of pop.

    There is 300 g of sugar in _____ L of pop.

    $$\frac{\boxed{}\ \text{g sugar}}{\boxed{}\ \text{mL pop}} = \frac{\boxed{}\ \text{g sugar}}{\boxed{}\ \text{pop}}$$

    Change your answer to litres.

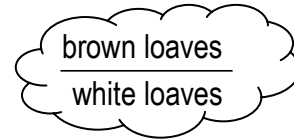**6.** Canadians buy 5 loaves of brown bread for every 2 loaves of white bread.
A bakery makes 200 loaves of brown bread.

$$\frac{\text{brown loaves}}{\text{white loaves}}$$

The bakery should make _____ loaves of white bread.
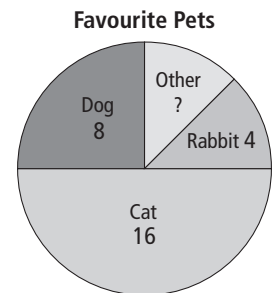
Short Answer

7. Randi makes 9 scarves from 4 m of fabric.
How many scarves can she make from 28 m of fabric?

Proportion:

Solve:

Sentence: _____

8. The circle graph shows the favourite pets for a class of 32 grade 8 students.

Favourite Pets

Dog 8 · Other ? · Rabbit 4 · Cat 16

a) How many students chose a pet other than a dog, cat, or rabbit?

Sentence: _____

b) Write a ratio to show the number of students who chose a cat compared to the number who

chose a rabbit. _____

c) Write an equivalent ratio for your answer in part b).

Name: _____   Date: _____

9. Kyra is shopping for ketchup.
Her favourite brand is available in 2 sizes.

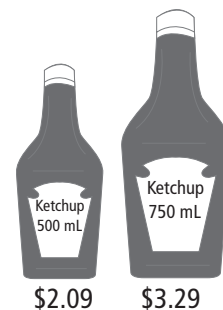**a)** Estimate which is the better buy. Show your work.

Small bottle:	*Large bottle:*
$2.09 is about _____	$3.29 is about _____

Small bottle:

$$\text{Unit price} = \frac{\text{cost}}{\text{\# of mL}}$$

Large bottle:

Sentence: _____

b) Calculate to find the better buy. Show your work.

Small bottle:
$$\text{Unit price} = \frac{\text{cost}}{\text{\# of mL}}$$

Large bottle:

Sentence: _____

10. Karen earns $420 for working 35 h at a factory.
Liam makes $40 for working 4 h at a store.

a) What is Karen's hourly rate of pay?   **b)** What is Liam's hourly rate of pay?

c) Who has the greatest rate of hourly pay? _____

d) How much does Liam earn in an 8-h shift?

Sentence: _____