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Practice Test

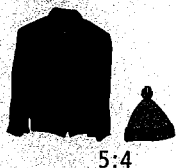
For #1 to #4, choose the best answer.

- The ratio of Jared's stamps to Paulo's stamps is 4:7. If Jared has 36 stamps how many stamps does Paulo have?

A 21 B 63
C 84 D 99
- A robot can make 27 toy cars in 9 min. Which of the following is the unit rate for this robot?

A 27 cars/9 min B 3 cars
C 3 cars per min D $\frac{1}{3}$ car/min
- In the school choir, the ratio of girls to boys is 17:8. What percent of the school choir are boys?

A 8% B 17%
C 25% D 32%
- The picture shows the ratio of the cost of a shirt to the cost of a hat and the ratio of the cost of the hat to the cost of a pair of jeans. What is the ratio of the cost of the shirt to the cost of the jeans?



- A 1 to 1 B 1:2
C 2 to 1 D 9:7

Complete the statements in #5 and #6.

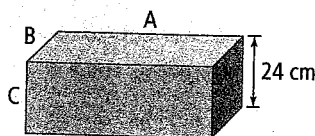
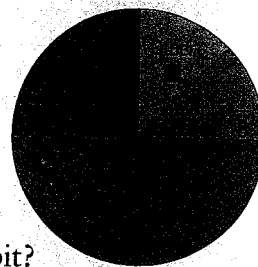
- A currency exchange requires \$500 Canadian to receive \$600 Australian. For \$300 Canadian, you would receive Australian.

- Canadians buy five loaves of brown bread for every two loaves of white bread and one loaf of rye bread. A large bakery makes 20 000 loaves of brown bread. The bakery should make loaves of white and loaves of rye.

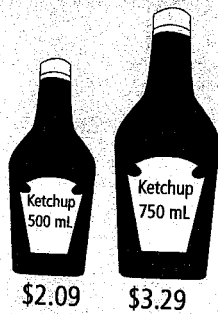
Short Answer

- Randi made nine scarves from 4 m of fabric. How many scarves can she make from 28 m of the same fabric?
- Tank A has a capacity of 20 L. It is half filled with maple syrup. The ratio of the volume of maple syrup in Tank A compared to the volume of maple syrup in Tank B is 2:5. How much maple syrup is in Tank B?
- The circle graph shows the favourite pets for a class of 32 grade 8 students.
 - How many students selected a pet other than a dog, cat, or a rabbit?
 - Write a ratio to represent the number of students who selected a cat compared to a rabbit. Write an equivalent ratio.
- The lengths of A, B, and C are in the ratio 8:2:3, respectively. The length of side C is 24 cm. What is the area of the top of the box?

Favourite Pets



11. Kyra is shopping for ketchup. Her favourite brand is available in two sizes.



- a) Estimate which is the better buy. Show your work.
- b) Calculate to find the better buy. Show your work.

Extended Response

12. Peter runs 200 m in 30 s, while his sister Eva runs 300 m in 36 s.
- a) Who is the faster runner? Explain how you can tell.
- b) At the same rate, how far will each runner go in 2 min?
- c) How long should it take for each runner to travel 1 km? State any assumptions that you must make.
13. Each week, Karen earns \$420 for 35 h of work at a factory. Her friend Liam makes \$440 for 40 h of work at a store.

- a) Who has the greatest hourly rate of pay?
- b) How much does Liam earn in an 8-h shift?

14. The actual height of the goat shown here is 1.14 m. Measure the height of the goat in the picture in centimetres.

- a) What is the ratio of the height of the goat in the picture compared to the actual height of the goat? Explain what this ratio means.

- b) Use ratios to find the actual length of one of the mountain goat's horns. Show your work.

