

Ratio & Proportion

Year 8 · Ratio & Proportion · y8-ratio-simplify

Name: _____

Date: _____

Class: _____

Score: ____ / ____

Instructions

Answer every question in Practice. Try the Challenge section once Practice is complete. 10 questions in total.

Practice

1. 5 pens cost £3.75. How much do 8 of the same pens cost? Give your answer in pounds.

2. A car uses 6 litres of fuel to travel 90 km. How many litres does it use to travel 120 km?

3. y is directly proportional to x . When $x = 4$, $y = 20$. First find the value of y when $x = 1$, then find y when $x = 9$.

4. Shop A sells 400 g of cereal for £2.80. Shop B sells 500 g for £3.25. Which shop offers better value? Type A or B.

5. Brand X sells 3 litres of juice for £2.10. Brand Y sells 5 litres for £3.40. Which brand is better value? Type X or Y.

6. 6 workers take 8 days to complete a job. How many days would 4 workers take to complete the same job, working at the same rate?

7. 4 kg of apples cost £3.20. How much do 7 kg of the same apples cost? Give your answer in pounds.

8. A map has a scale of 1:50 000. Two towns are 6 cm apart on the map. What is the actual distance between them in km?

Challenge

1. 9 machines take 10 hours to complete an order. How many hours would 15 machines take to complete the same order?

2. A factory produces 840 units using 7 machines running for 4 hours. How many units can 5 machines produce in 6 hours at the same rate?
