

Grade 6 ratio and proportion test

NAME	DATE	SCORE / 10
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Answer each question. Show your work.

- 1 Fill in the box: $7:4 = 21:\square$

- 3 A hose fills a tub at 8 litres per minute. How many litres does the hose put in the tub in 15 minutes?

- 5 A team won 4 games. That is 10% of the games the team played. How many games did the team play?

- 7 A gardener mixes soil and compost in the ratio 8:1. The gardener uses 16 litres of soil. How many litres of the mix does the gardener make?

- 9 A printer prints 27 pages per minute. Which sentence tells what this rate means?

- ☐ The printer can print 27 pages in all.
☐ In 1 hour, the printer prints 27 pages.
☐ In 1 minute, the printer prints 27 pages.
☐ The printer takes 27 minutes to print 1 page.

- 2 A car goes 138 kilometres in 3 hours. What is the car's speed, in kilometres per hour?

- 4 Cleo makes 33 cups of fruit punch by mixing juice and water in the ratio 7:4. How many cups of water does Cleo use?

- 6 What percent of 20 is 19?

- 8 A 10-kilogram bag of rice costs \$14.50. A 20-kilogram bag of rice costs \$26.80. Which bag is the better buy?

- ☐ The 10-kilogram bag
☐ Both cost the same per kilogram
☐ The 20-kilogram bag

- 10 Is "4 kilometres of walking to 7 kilometres of biking" a rate, and why?

- ☐ No: walking and biking cannot be compared
☐ No: both amounts are in kilometres
☐ Yes: any comparison of two amounts is a rate
☐ Yes: it compares walking with biking

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NAME	DATE	SCORE / 2
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Answer each question. Show your work.

11

Green paint is always mixed from blue paint and yellow paint in the same ratio. Write the missing numbers in the ratio table, in order:

Cans of blue paint: 24, 4, 48, 28

Cans of yellow paint: 18, , ,

12

The double number line below shows hours of biking on the top line and kilometres biked on the bottom line. How many kilometres does point A show?

0

1

2

3

4

5

6

0

60

A

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1	12	2	46	3	120
4	12	5	40	6	95
7	18	8	The 20-kilogram bag	9	In 1 minute, the printer prints 27 pages.
10	No: both amounts are in kilometres	11	3, 36, 21	12	40