

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.

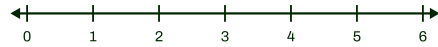
- 11** Green paint is always mixed from blue paint and yellow paint in the same ratio. Write the missing numbers in the ratio table, in order:

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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?



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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