

Ratios and Rate Reasoning: math test, Grade 6 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Describing a garden

/ 3 pts

A garden has 12 tulips, 18 daisies and 6 roses. Write each ratio in simplest form: (a) tulips to daisies, (b) roses to all flowers, (c) daisies to tulips.

2 Equivalent ratios

/ 3 pts

(a) Find the missing number: $5 : 8 = 20 : \square$. (b) Find the missing number: $5 : 8 = \square : 56$.
(c) Are $12 : 20$ and $21 : 35$ equivalent? Explain.

3 Cereal prices

/ 4 pts

Brand X sells 18 oz of cereal for \$4.50. Brand Y sells 30 oz for \$6.90. (a) Find each unit price. (b) Which brand is the better buy? (c) How much do 90 oz of the better buy cost?

4

Jogging speed

/ 3 pts

Jenna jogs 2.5 miles in 20 minutes at a steady pace. (a) What is her speed in miles per hour?
(b) How far does she jog in 50 minutes?

5

Beads

/ 4 pts

A necklace has 63 beads, red and yellow, in the ratio **4 : 3**. Use a tape diagram to find how many beads of each color there are.

6

Printing job

/ 3 pts

A school printer prints 45 pages in 6 minutes. (a) Find the unit rate in pages per minute. (b) How long does it take to print 150 pages?

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