

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

Test solutions with the detailed point scale. Add up your points and spot what to review.

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

1 Describing a garden

/ 3 pts

- (a) $12 : 18 = 2 : 3$ (1 pt)
- (b) There are $12 + 18 + 6 = 36$ flowers, so $6 : 36 = 1 : 6$. (1 pt)
- (c) $18 : 12 = 3 : 2$. (1 pt)

2 Equivalent ratios

/ 3 pts

- (a) $5 \times 4 = 20$, so $8 \times 4 = 32$. (1 pt)
- (b) $8 \times 7 = 56$, so $5 \times 7 = 35$. (1 pt)
- (c) Yes: $12 : 20 = 3 : 5$ (divide by 4) and $21 : 35 = 3 : 5$ (divide by 7). (1 pt)

3**Cereal prices****/ 4 pts**

(a) Brand X: $4.50 \div 18 = 0.25$ dollar per ounce (1 pt). Brand Y: $6.90 \div 30 = 0.23$ dollar per ounce (1 pt).

(b) $0.23 < 0.25$, so Brand Y is the better buy. (1 pt)

(c) $90 = 30 \times 3$, so the cost is $3 \times 6.90 = 20.70$ dollars. (1 pt)

4**Jogging speed****/ 3 pts**

(a) 60 minutes is 20×3 , so she jogs $2.5 \times 3 = 7.5$ miles in an hour: 7.5 miles per hour. (2 pts)

(b) $50 \div 20 = 2.5$, so the distance is $2.5 \times 2.5 = 6.25$ miles. (1 pt)

5**Beads****/ 4 pts**

Draw 4 boxes for red and 3 boxes for yellow. (1 pt)

There are $4 + 3 = 7$ boxes. (1 pt)

One box is $63 \div 7 = 9$ beads. (1 pt)

Red: $4 \times 9 = 36$ beads. Yellow: $3 \times 9 = 27$ beads. Check: $36 + 27 = 63$. (1 pt)

6**Printing job****/ 3 pts**

(a) $45 \div 6 = 7.5$ pages per minute. (1 pt)

(b) $150 \div 7.5 = 20$. (1 pt)

It takes **20 minutes**. (1 pt)



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