

Grade 6 - Ratio Tables and Graphs of Ratios - Test Answer Key

Common Core 6.RP.A.3a · maths-pdf.fr/en/

This **ratio tables test answers** for 6th Grade covers ratio tables and graphs of ratios (Common Core 6.RP.A.3a), with a free PDF to print.

Use this answer key to score the ratio tables test out of 20 points. Each solution is fully worked, and the scoring line explains how to award each point and partial credit.

Grade 6 · Common Core State Standards: **6.RP.A.3a**

Ratio tables test answers: worked solutions

Question 1 - Complete the table [2 pts]

The ratio is 3:7. $3 \times 2 = 6$, so $7 \times 2 = 14$.

$21 \div 7 = 3$, so $3 \times 3 = 9$.

The missing numbers are 14 and 9.

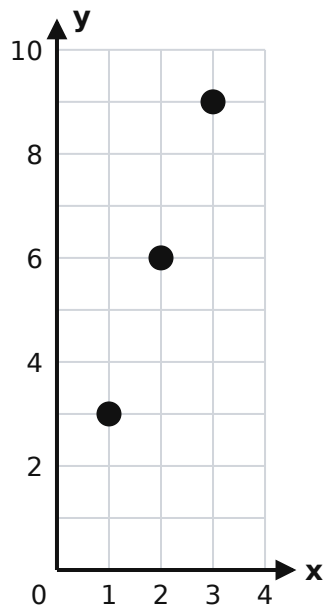
Boys	3	6	9	12
Girls	7	14	21	28

Completed table.

Scoring: 1 point for the table with correct scale factors; 1 point for 14 and 9 correct.

Question 2 - Plot the pairs [2 pts]

Plot (1,3), (2,6), (3,9).



The three points.

Scoring: 1 point for correct pairs; 1 point for correct plotting.

Question 3 - Read the graph [2 pts]

The pair (2,5) gives $5 \div 2 = 2.5$ dollars per hour.

$$2.5 \times 8 = 20$$

He earns \$20.00.

Scoring: 1 point for the rate or scale factor; 1 point for \$20.

Question 4 - Double number line [2 pts]

Flour 4, 8, 12, 20 corresponds to multipliers 1, 2, 3, 5.

Milk: 3, 6, 9, 15.

Scoring: 1 point for the multipliers; 1 point for all four correct milk amounts.

Question 5 - Spot the error [2 pts]

Equivalent ratios come from multiplying, not adding. $4 \times 2.5 = 10$, so $6 \times 2.5 = 15$.

The correct pair is (10,15).

Scoring: 1 point for explaining that multiplication is needed; 1 point for 15.

Question 6 - Better mix [2 pts]

A: $30 \div 5 = 6$, cocoa $2 \times 6 = 12$.

B: $30 \div 6 = 5$, cocoa $3 \times 5 = 15$.

Mix B is stronger.

Scoring: 1 point for both tables; 1 point for the conclusion.

Question 7 - Rate from a table [2 pts]

$18 \div 3 = 6$ pages per day.

$6 \times 5 = 30$ pages and $6 \times 9 = 54$ pages.

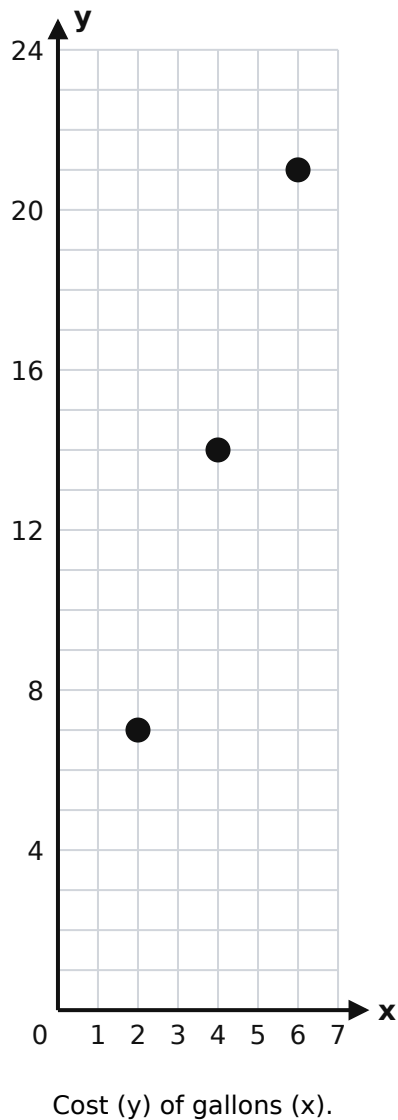
Scoring: 1 point for the unit rate; 1 point for 30 and 54.

Question 8 - Table and graph [3 pts]

(a) $\$7.00 \div 2 = \$3.50$.

(b) Plot (2,7), (4,14), (6,21).

(c) $\$3.50 \times 10 = \$35.00$.



Scoring: 1 point for each part.

Question 9 - Compare runners [3 pts]

Mei: $60 \div 20 = 3$, laps $12 \times 3 = 36$.

Noah: $60 \div 30 = 2$, laps $15 \times 2 = 30$.

36 is greater than 30, so Mei runs more laps.

Scoring: 1 point for each table; 1 point for the conclusion.

Total score

Total
20 points

Key facts behind this ratio tables test answers
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Key facts
• Each column of a ratio table is an equivalent ratio. • Multiply or divide both numbers by the same number; adding does not work. • A double number line shows the same ratio on two scales. • Plot each pair as (x, y); equivalent ratios lie on a line through the origin. • To compare ratios, make one quantity the same in both tables.

How to use this ratio tables test answers
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Score your test with the point values shown for each question. Then read the worked solution of every question where you lost points and note the method to review.