

Grade 6 - Ratio Tables and Graphs of Ratios - Quiz

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

Name: _____ Class: _____ Date: ____/____/____

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

This quiz has 10 multiple-choice questions on ratio tables and graphs of ratios (Common Core 6.RP.A.3a). Pick one answer for each question and read the explanation to learn from any miss.

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

Ratio tables quiz: 10 questions

Questions

Question 1

Which pair completes the table?

x	2	4	6
y	6	12	?

Equivalent ratios.

- A. 18
- B. 12
- C. 14
- D. 9

Question 2

Which ordered pair is on the graph of the ratio 2 to 5?

- A. (6, 15)
- B. (6, 12)
- C. (4, 12)
- D. (5, 8)

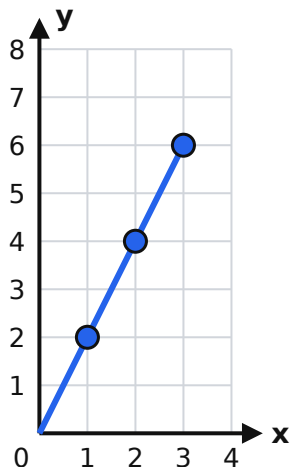
Question 3

A table shows 3 to 4, 6 to 8, 9 to 12. What is the missing number in 15 to ?

- A. 18
- B. 19
- C. 20
- D. 24

Question 4

Which graph feature shows equivalent ratios?



A graph.

- A. The points lie on a straight line through the origin
- B. The points form a curve
- C. The points are all in a vertical line
- D. The line stops at (1, 2)

Question 5

Ethan runs 3 miles in 24 minutes. How many miles does he run in 40 minutes at the same pace?

- A. 9 miles
- B. 8 miles
- C. 15 miles
- D. 5 miles

Question 6

Which pair is NOT equivalent to 3 to 7?

- A. 6 to 14
- B. 9 to 20
- C. 9 to 21
- D. 12 to 28

Question 7

The table shows pay for hours worked. What is the pay for 5 hours?

Hours	2	3	5
Pay	\$18	\$27	?

Pay.

- A. \$36
- B. \$45
- C. \$40
- D. \$90

Question 8

A recipe uses 5 apples for 2 pies. Which table row gives the apples for 10 pies?

- A. 20 apples
- B. 12 apples
- C. 50 apples
- D. 25 apples

Question 9

Two lines are graphed. Line A passes through (1, 3). Line B passes through (1, 4). Both start at (0, 0). Which statement is true?

- A. Line A rises faster
- B. Line B rises faster
- C. They rise at the same rate
- D. Neither goes through the origin

Question 10

Which ratio table is correct for the ratio 4 to 5?

- A. 4, 8, 12 and 5, 9, 13
- B. 4, 8, 12 and 9, 13, 17
- C. 4, 8, 12 and 5, 10, 15
- D. 4, 8, 12 and 5, 10, 14

Answers

1. **A** - The ratio is 1 to 3, so $(6 \times 3 = 18)$. The value 12 just repeats the previous y instead of scaling.
2. **A** - For 2 to 5, $y = 2.5x$. For $x = 6$, $y = 15$.
3. **C** - The ratio is 3 to 4. $(15 \div 3 = 5)$ and $(4 \times 5 = 20)$.
4. **A** - Equivalent ratios plot as points on a line through (0, 0).
5. **D** - 24 minutes is 8 minutes per mile. $(40 \div 8 = 5)$ miles.
6. **B** - 3 to 7 scaled by 3 is 9 to 21, not 9 to 20.
7. **B** - $(\$18 \div 2 = \$9)$ per hour, and $(5 \times \$9 = \$45)$.
8. **D** - $(10 \div 2 = 5)$ groups, and $(5 \times 5 = 25)$ apples.
9. **B** - B increases by 4 for each 1 across, and A by 3.
10. **C** - Both numbers are multiplied by the same factor: 1, 2, 3.

Remember

Remember

- 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 quiz

Answer each question, read the explanation that appears, and keep track of your score. A score of 8 out of 10 or more means you are ready for the test.

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