Tables of Equivalent Ratios

Equivalent ratio tables: Mistakes and missing information

Name _____ **Date** _____ **Score** _____ / 6

QUICK REVIEW

Equivalent ratio tables multiply both columns by the same factor. For 2 cups/5 servings, doubling gives 4 cups/10 servings; every row has cups/servings $= 2/5$.

Worked example

Complete the second row of this equivalent-ratio table.

1. Factor from 3 to 12: $12 \div 3 = 4$.

2. Apply it to the second column: $8 \times 4 = 32$.

Answer: 32.

A	B
3	8
12	?

Practice Problems

Show your thinking.

1. A student extends $(3, 5)$ to $(6, 8)$ by adding 3. Fix the second row.

2. Recover the B entry paired with A $= 28$.

A	B
7	4
28	?

3. Rows $(4, 10), (8, 20), (12, 25)$ are listed as equivalent. Identify and repair the bad row.

4. Find the smaller missing entry.

A	B
9	6
3	?

5. Design a new row five times the given row.

A	B
3	11
?	?

6. A table has $(2, 8), (5, 20), (7, x)$. Find x using addition of rows.

Answer Key

1. $(6, 10)$.
2. 16.
3. $(12, 30)$.
4. 2.
5. 15 and 55.
6. 28.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. A doubled: $6 \div 3 = 2$.
2. B must double too: $5 \times 2 = 10$; $8/6 \neq 5/3$.

Problem 2

1. Factor from 7 to 28: $28 \div 7 = 4$.
2. Apply it to the second column: $4 \times 4 = 16$.

Problem 3

1. $12 \div 4 = 3$, so the third row scales the first by 3.
2. $10 \times 3 = 30$, not 25; $30/12 = 10/4$.

Problem 4

1. Factor from 9 to 3: $3 \div 9 = \frac{1}{3}$.
2. Apply it to the second column: $6 \times \frac{1}{3} = 2$.

Problem 5

1. The scale factor is 5: $3 \times 5 = 15$.
2. The matching quantity is $11 \times 5 = 55$; $15/55 = \frac{3}{11}$.

Problem 6

1. The A entries combine: $2 + 5 = 7$.
2. The matching B entries combine: $8 + 20 = 28$; $28/7 = 4$.

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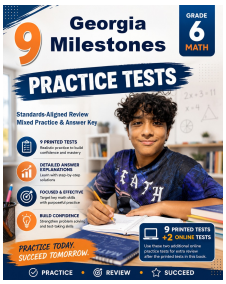

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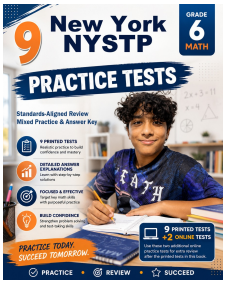

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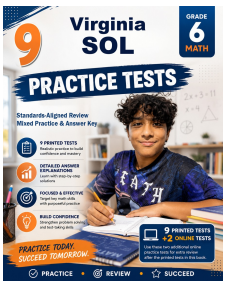

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