Tables of Equivalent Ratios

Equivalent ratio tables: Applications and decisions

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. Three bowls of oats need 5 bowls of water. How much water for 18 bowls of oats?

A	B
3	5
18	?

2. Four tickets cost 14 dollars. Complete the cost for 10 tickets.

A	B
4	14
10	?

3. A kit has 2 wheels and 9 rods. Model four kits as a new table row.

A	B
2	9
?	?

4. Six meters of cloth cost 15 dollars. Recover the unknown cost of 14 meters.

A	B
6	15
14	?

5. A drink table lists concentrate/water $(2, 7), (4, 14)$. Mix these batches. Give the combined row and check the ratio.

6. Five seed packets cover 12 square meters. Complete the row for 15 packets.

A	B
5	12
15	?

Answer Key

1. 30.
2. 35.
3. 8 and 36.
4. 35.
5. $(6, 21)$; same $2:7$ ratio.
6. 36.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Factor from 3 to 18: $18 \div 3 = 6$.
2. Apply it to the second column: $5 \times 6 = 30$.

Problem 2

1. Factor from 4 to 10: $10 \div 4 = \frac{5}{2}$.
2. Apply it to the second column: $14 \times \frac{5}{2} = 35$.

Problem 3

1. The scale factor is 4: $2 \times 4 = 8$.
2. The matching quantity is $9 \times 4 = 36$; $8/36 = \frac{2}{9}$.

Problem 4

1. Factor from 6 to 14: $14 \div 6 = \frac{7}{3}$.
2. Apply it to the second column: $15 \times \frac{7}{3} = 35$.

Problem 5

1. Concentrate $= 2 + 4 = 6$ cups; water $= 7 + 14 = 21$ cups.
2. $6/21 = 2/7$, so combining these batches preserves the table ratio.

Problem 6

1. Factor from 5 to 15: $15 \div 5 = 3$.
2. Apply it to the second column: $12 \times 3 = 36$.

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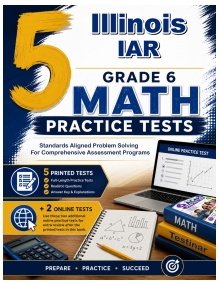

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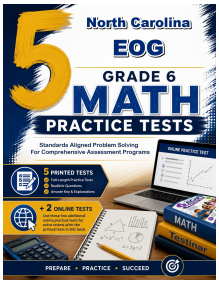

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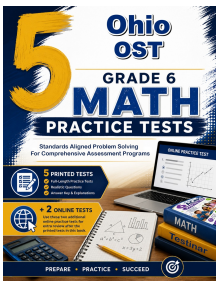

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