Tables of Equivalent Ratios

Equivalent ratio tables: Models and calculations

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. Complete the row made by tripling both entries.

A	B
2	7
?	?

2. Complete the missing B entry.

A	B
4	9
20	?

3. Scale down to A $= 2$.

A	B
6	15
2	?

4. Add the row for four identical groups.

A	B
5	3
?	?

5. Do rows $(2, 6), (3, 9), (5, 15)$ belong in one equivalent-ratio table?

6. Complete the row even though the scale factor is not whole.

A	B
8	12
10	?

Answer Key

1. 6 and 21.
2. 45.
3. 5.
4. 20 and 12.
5. Yes; B is three times A.
6. 15.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The scale factor is 3: $2 \times 3 = 6$.
2. The matching quantity is $7 \times 3 = 21$; $6/21 = \frac{2}{7}$.

Problem 2

1. Factor from 4 to 20: $20 \div 4 = 5$.
2. Apply it to the second column: $9 \times 5 = 45$.

Problem 3

1. Factor from 6 to 2: $2 \div 6 = \frac{1}{3}$.
2. Apply it to the second column: $15 \times \frac{1}{3} = 5$.

Problem 4

1. The scale factor is 4: $5 \times 4 = 20$.
2. The matching quantity is $3 \times 4 = 12$; $20/12 = \frac{5}{3}$.

Problem 5

1. $6/2 = 3$ and $9/3 = 3$.
2. $15/5 = 3$ too, so all rows use B $= 3\times$ A.

Problem 6

1. Factor from 8 to 10: $10 \div 8 = \frac{5}{4}$.
2. Apply it to the second column: $12 \times \frac{5}{4} = 15$.

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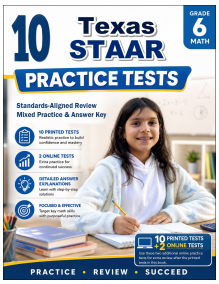

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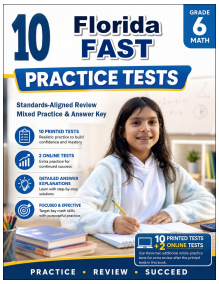

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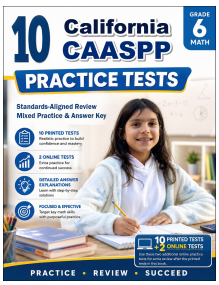

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