Using Ratio Language

Using ratio language: Models and calculations

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QUICK REVIEW

A ratio compares counts in a stated order. For 4 blue and 6 gold beads, blue to gold is $4:6=2:3$, but blue to all is $4:10=2:5$. For every 2 blue, there are 3 gold preserves the same order.

Worked example

There are 6 apples and 9 pears. State apples to pears and apples to all.

1. $6\div3=2$ and $9\div3=3$, so apples to pears is $2:3$.
2. Total fruit: $6+9=15$.
3. Apples to all is $6:15=2:5$ because $15\div3=5$.
Answer: $2:3$ and $2:5$.

Practice Problems

Show your thinking.

1. A basket has 4 plums and 7 peaches. Write a for every statement for plums to peaches.

2. Use the boxes to write B to A in words and with a colon.

B □□□□

A □□□□□□

3. Explain 3 pencils for every 2 erasers by giving counts for 4 erasers.

4. There are 5 drummers and 10 singers. Complete: For every 1 drummer, there are _____ singers.

5. A bin has 3 red and 8 white balls. State red to total in a sentence.

6. Write 12 meters in 3 seconds as a for every 1 second statement.

7. Write both ordered statements for 2 vans and 9 bicycles.

8. For every 4 players, 1 coach. Give a sentence describing 12 players.

Answer Key

1. For every 4 plums, there are 7 peaches.
2. For every 2 B, there are 3 A; $2:3$.
3. 6 pencils and 4 erasers.
4. 2 singers.
5. For every 3 red balls, there are 11 balls altogether.
6. For every 1 second, 4 meters are traveled.
7. For every 2 vans, 9 bicycles; for every 9 bicycles, 2 vans.
8. For 12 players, there are 3 coaches.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The first quantity is 4 plums; the second is 7 peaches.
2. $\gcd(4,7)=1$, so the statement uses $4:7$ without reducing.

Problem 2

1. Count 4 B and 6 A: B to A is $4:6$.
2. $4\div 2=2$ and $6\div 2=3$, giving $2:3$.

Problem 3

1. $4\div 2=2$ groups of erasers.
2. Each group needs 3 pencils, so $2\times 3=6$ pencils.

Problem 4

1. $5\div 5=1$ drummer per group.
2. $10\div 5=2$ singers in each matching group.

Problem 5

1. Total balls: $3+8=11$.
2. Red to total is $3:11$; white to total would be $8:11$.

Problem 6

1. $3\div 3=1$ second.
2. $12\div 3=4$ meters; $4\times 3=12$ meters checks the statement.

Problem 7

1. Vans to bicycles is $2:9$; $\gcd(2,9)=1$.
2. Reversing the named quantities gives $9:2$, and $2/9\neq 9/2$.

Problem 8

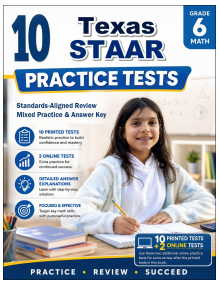
1. $12\div 4=3$ groups of players.
2. $3\times 1=3$ coaches; $12:3=4:1$.

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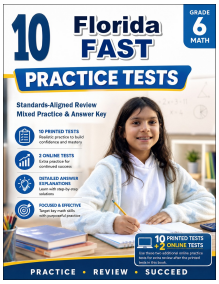
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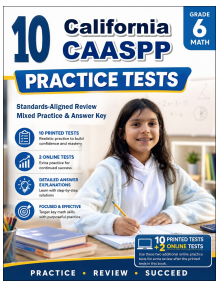
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