Using Ratio Language

Using ratio language: Applications and decisions

Name _____ **Date** _____ **Score** _____ / 8

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 guide says 1 adult for every 6 children. Describe the staffing for 24 children.

2. A label says 2 scoops cocoa for every 5 scoops milk. Write a statement for a 21-scoop batch.

3. A game has 9 wins and 3 losses. Write wins to losses and wins to total games in words.

4. A sign says 3 plants need 6 liters. Write a less confusing per-plant instruction.

5. A group has 10 walkers and 15 cyclists. Repair For every 2 walkers, there are 5 cyclists.

6. Create a whole-number shopping example for 4 notebooks for every 3 folders with 21 folders.

7. Two signs read 5 meters each second and 20 meters every 4 seconds. Do they describe the same speed?

8. A team has 8 returning players and 4 new players. State new players as a ratio to the whole team, in words.

Answer Key

1. 4 adults for 24 children.
2. 6 scoops cocoa for every 15 scoops milk.
3. 3 wins per 1 loss; 3 wins out of every 4 games.
4. Use 2 liters for each plant.
5. For every 2 walkers, there are 3 cyclists.
6. Buy 28 notebooks and 21 folders.
7. Yes, 5 m/s.
8. 1 new player out of every 3 players.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. $24 \div 6 = 4$ child groups.
2. $1 \times 4 = 4$ adults; $4 : 24 = 1 : 6$.

Problem 2

1. $2 + 5 = 7$ scoops per group; $21 \div 7 = 3$.
2. $2 \times 3 = 6$ cocoa and $5 \times 3 = 15$ milk, totaling 21.

Problem 3

1. $9 : 3 = 3 : 1$.
2. $9 + 3 = 12$ games; $9 : 12 = 3 : 4$.

Problem 4

1. $6 \div 3 = 2$ liters per plant.
2. For 3 plants, $3 \times 2 = 6$ liters, matching the sign.

Problem 5

1. $10 \div 5 = 2$ walkers per group.
2. $15 \div 5 = 3$ cyclists, while 5 would describe the total per group.

Problem 6

1. $21 \div 3 = 7$ groups.
2. $4 \times 7 = 28$ notebooks; $28 : 21 = 4 : 3$.

Problem 7

1. $20 \div 4 = 5$ meters per second.
2. The first sign predicts $5 \times 4 = 20$ meters in 4 seconds.

Problem 8

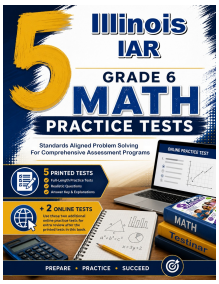
1. Team total: $8 + 4 = 12$.
2. New to total: $4 : 12 = 1 : 3$.

TESTINAR

Keep Building Grade 6 Math Skills

Choose the practice book matched to your state assessment and turn worksheet practice into a complete test-prep plan.

All Grade 6 books



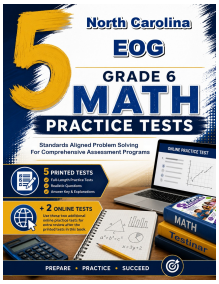
ILLINOIS IAR

5 Full-Length Math Practice Tests

Build Grade 6 accuracy, confidence, and test stamina with 5 printable practice tests.

Printable eBook • Instant PDF access

View eBook



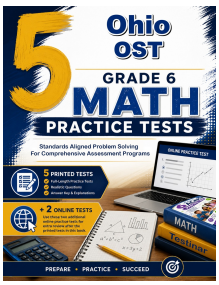
NORTH CAROLINA EOG

5 Full-Length Math Practice Tests

Build Grade 6 accuracy, confidence, and test stamina with 5 printable practice tests.

Printable eBook • Instant PDF access

View eBook



OHIO OST

5 Full-Length Math Practice Tests

Build Grade 6 accuracy, confidence, and test stamina with 5 printable practice tests.

Printable eBook • Instant PDF access

View eBook

Need a different state?
Testinar has Grade 6 math practice books for state assessments across the country.

TESTINAR.COM/GRADES/6