Multiplication and Division Word Problems

Apply the skill to decisions and designs

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

QUICK REVIEW

Ask what is unknown. Equal groups with an unknown total use multiplication: 4 bags of 3 apples give $4 \times 3 = 12$. A known total shared equally uses division: $12 \div 4 = 3$ apples per bag. Include the unit in your answer.

Worked example

Share 21 pebbles equally among 3 children. How many does each child get?

1. Each of the 3 children gets the same share: $21 \div 3 = 7$.
2. Check all shares: $3 \times 7 = 21$ pebbles.
Answer: 7 pebbles per child.

Practice Problems

Show your thinking.

1. A class needs 39 pencils. There are 8 packs with 5 each. Are there enough? How many extra?

2. Put 42 seeds into groups of 7. How many groups can you make?

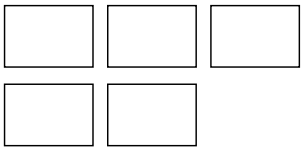
3. Share 32 cards equally among 4 children. How many does each child get?

4. 3 teams each receive 6 shells. Find the starting total, then write a sharing equation.

5. There are 24 children and only 3 tables. A table can seat either 6 or 8 children. Test both equal-team plans and find the plan that fits all children.

6. Four friends share 24 cards equally. Then two more friends join and all cards are shared equally again. Find each share before and after the new sharing.

7. Five children each need 3 tickets. Draw the tickets in the five empty boxes, one box per child. Find tickets needed altogether and label an equation.



8. Use $6 \times 4 = 24$ to complete a short sharing story. Groups are children and the objects are stamps. State children, stamps per child, and stamps altogether.

Answer Key

1. Yes; 40 pencils, with 1 extra.
2. 6 groups.
3. 8 cards per child.
4. 18 shells; $18 \div 3 = 6$.
5. Use 8 per table: $24 \div 8 = 3$ tables. Six per table would need 4 tables.
6. Before 6 cards each; after 4 cards each.
7. 15 tickets; $5 \times 3 = 15$.
8. 6 children; 4 stamps per child; 24 stamps altogether.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The packs contain $8 \times 5 = 40$ pencils.

2. $40 - 39 = 1$, so the packs have 1 more than needed.

Problem 2

1. Each group uses 7 seeds; 6 groups use $6 \times 7 = 42$.

2. Therefore $42 \div 7 = 6$ counts groups, not seeds in one group.

Problem 3

1. Each of the 4 children gets the same share: $32 \div 4 = 8$.

2. Check all shares: $4 \times 8 = 32$ cards.

Problem 4

1. Combine the shares: $3 \times 6 = 18$ shells.

2. Sharing the total again gives $18 \div 3 = 6$ per team.

Problem 5

1. With 6 at each table, $24 \div 6 = 4$ tables are needed, more than the 3 available.

2. With 8 at each table, $24 \div 8 = 3$ tables fit exactly. Check $3 \times 8 = 24$ children.

Problem 6

1. The first share is $24 \div 4 = 6$ cards per friend.

2. There are now $4 + 2 = 6$ friends, so $24 \div 6 = 4$ cards each. Check $6 \times 4 = 24$.

Problem 7

1. Put 3 tickets in each of the 5 boxes, one equal group for every child.

2. Count $3 + 3 + 3 + 3 + 3 = 15$ tickets. The matching multiplication is $5 \times 3 = 15$.

Problem 8

1. Using groups first, the factor 6 counts the children and the factor 4 counts equal stamps per child.

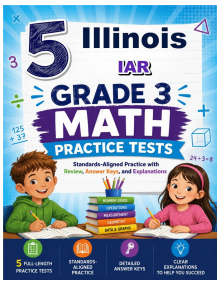
2. The total is $6 \times 4 = 24$ stamps. Sharing back checks the story: $24 \div 6 = 4$ stamps per child.

TESTINAR

Keep Building Grade 3 Math Skills

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

All Grade 3 books



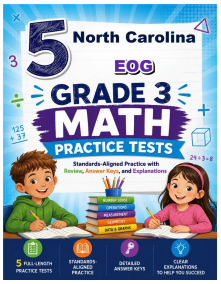
ILLINOIS IAR

5 Full-Length Math Practice Tests

Build Grade 3 accuracy, confidence, and test stamina with 5 printable practice tests.

Printable eBook • Instant PDF access

View eBook



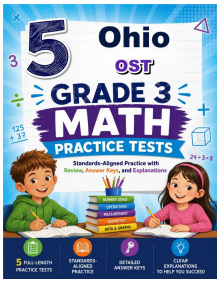
NORTH CAROLINA EOG

5 Full-Length Math Practice Tests

Build Grade 3 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 3 accuracy, confidence, and test stamina with 5 printable practice tests.

Printable eBook • Instant PDF access

View eBook

Need a different state?
Testinar has Grade 3 math practice books for state assessments across the country.

TESTINAR.COM/GRADES/3