Multiplicative Comparison Word Problems

Spot mistakes, reason, and work backward

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

QUICK REVIEW

In Mia has 3 times as many as Leo, Leo is the smaller group. If Leo has 8, Mia has $3 \times 8 = 24$. If Mia has 24, find Leo with $24 \div 3 = 8$.

Worked example

A kite has a 6-m tail. Another tail is 4 times as long. How long is it?

1. The first tail is one 6-m group.
2. Four groups give $4 \times 6 = 24$ m.
3. Check: $24 \div 6 = 4$.
Answer: 24 m.

Practice Problems

Show your thinking.

1. Luz has 40 cards and Ken has 8. Luz says 32 times as many. Fix the statement.

2. A long path is 63 m and a short path 9 m. Find the length factor.

3. A red bin holds 48 balls, 8 times a blue bin. Find the blue count.

4. A sketch has 4 dots for a small team and 20 for a big team. Write a comparison sentence.

A | 4 |

B | | | | | |

5. A hall has 72 seats. A room has 12. How many room-sized groups make the hall?

6. A basket has 30 apples. Is that 5 times 6 apples or 6 times 5 apples? Explain.

7. A poster must show 6 times 7 stars. It shows 35. How many stars should be added?

8. A rabbit travels 32 m in a model. A turtle travels 4 m. Write the rabbitś factor.

Answer Key

1. 5 times as many.
2. 7.
3. 6 balls.
4. The big team has 5 times as many dots.
5. 6.
6. Both equations total 30; the reference basket differs.
7. 7 stars.
8. 8.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. $40 - 8 = 32$ is the extra number of cards.
2. $40 \div 8 = 5$ is the number of equal groups.
3. $5 \times 8 = 40$ checks 5 times.

Problem 2

1. Use $9 \times \square = 63$.
2. $63 \div 9 = 7$.
3. $7 \times 9 = 63$ m checks it.

Problem 3

1. Use $8 \times \square = 48$.
2. $48 \div 8 = 6$ balls.
3. $8 \times 6 = 48$ checks the count.

Problem 4

1. Group the 20 dots in sets of 4.
2. $20 \div 4 = 5$ groups.
3. Thus $5 \times 4 = 20$ matches the sketch.

Problem 5

1. Two groups use $12 + 12 = 24$ seats.
2. Three such pairs use $3 \times 24 = 72$.
3. There are $3 \times 2 = 6$ groups.

Problem 6

1. $5 \times 6 = 30$ compares with 6 apples.
2. $6 \times 5 = 30$ compares with 5 apples.
3. The total is equal, but the reference counts are 6 and 5.

Problem 7

1. The target is $6 \times 7 = 42$ stars.
2. $42 - 35 = 7$ stars are missing.
3. $35 + 7 = 42$ checks the repair.

Problem 8

1. Each turtle-sized distance is 4 m.
2. $32 \div 4 = 8$ such distances.
3. $8 \times 4 = 32$ m verifies the factor.

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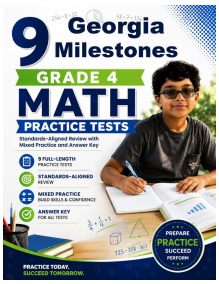

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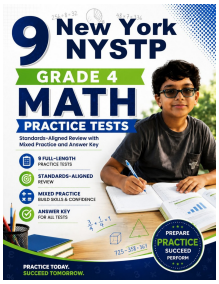

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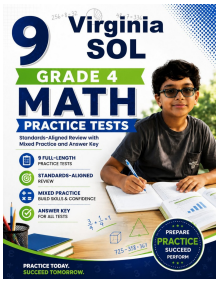

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