Multiplicative Comparison Word Problems

Explore ideas and representations

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. Nora has 7 stamps. Eli has 5 times as many. Find Eli's count.

2. A seedling is 9 cm tall. A plant is 4 times as tall. Find the plant height.

3. One shelf holds 8 books. A case holds 6 times as many. Find the case count.

4. A 5-kg box is compared with a box 3 times as heavy. Sam writes $5 + 3 = 8$. Correct him.

5. Rae reads 28 pages; Bo reads 7. How many times Boś count is Raeś?

6. A large bag has 54 marbles, 6 times a small bag. Find the small count.

7. A dog weighs 24 kg and a cat 6 kg. State the times comparison and the weight difference.

8. A small banner uses 4 m of ribbon. A large one uses 7 times as much. Is 30 m enough? Find the need.

Answer Key

1. 35 stamps.
2. 36 cm.
3. 48 books.
4. 15 kg.
5. 4.
6. 9 marbles.
7. The dog is 4 times as heavy and 18 kg heavier.
8. 28 m needed.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. One reference group is 7 stamps.
2. $5 \times 7 = 35$ stamps.
3. Check: $35 \div 7 = 5$.

Problem 2

1. One reference group is 9 cm.
2. $4 \times 9 = 36$ cm.
3. Check: $36 \div 9 = 4$.

Problem 3

1. One reference group is 8 books.
2. $6 \times 8 = 48$ books.
3. Check: $48 \div 8 = 6$.

Problem 4

1. $5 + 3 = 8$ kg means 3 kg more, not 3 times.
2. $3 \times 5 = 15$ kg uses three equal masses.
3. $15 \div 5 = 3$ checks the comparison.

Problem 5

1. Use $7 \times \square = 28$.
2. $28 \div 7 = 4$.
3. $4 \times 7 = 28$ pages checks the factor.

Problem 6

1. Six equal small bags make 54 marbles.
2. $54 \div 6 = 9$ marbles in each.
3. $6 \times 9 = 54$ checks the small count.

Problem 7

1. $24 \div 6 = 4$ gives the factor.
2. $24 - 6 = 18$ kg gives the difference.
3. $4 \times 6 = 24$ and $6 + 18 = 24$ check the two comparisons.

Problem 8

1. $7 \times 4 = 28$ m are needed.
2. $30 - 28 = 2$ m remain.
3. Since $28 \leq 30$, the ribbon is enough.

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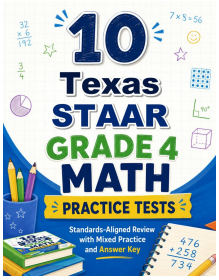

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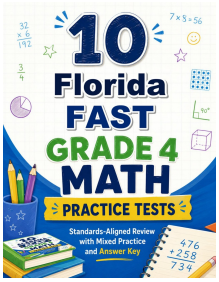

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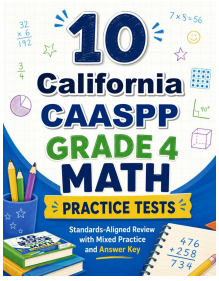

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