Multiplicative Comparison Word Problems

Apply the skill to decisions and designs

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. A display needs a 56-cm strip, 7 times the sample. Cut the sample length.

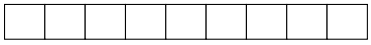
2. Design two packs: the large pack holds 4 times the small pack and 36 items. Give both sizes.

3. A big tank holds 45 L, 5 times a small tank. How many liters does the small tank hold?

4. A 6-m rope must be copied at 8 times its length. Jo chooses 14 m. Find and fix the error.

5. A school has 64 bikes and 8 scooters. A town has 72 bikes and 9 scooters. Compare both factors.

6. A small box contains 5 toy cars. Draw a bar for a box containing 9 times as many. Find its count.



7. One garden has 27 flowers, 3 times a second garden. Find the second count.

8. The 8-page booklet must become 6 times as long. How many pages must be added?

Answer Key

1. 8 cm.
2. 9 items and 36 items.
3. 9 L.
4. 48 m.
5. Both have 8 times as many bikes as scooters.
6. 45 cars.
7. 9 flowers.
8. 40 pages.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Seven sample lengths total 56 cm.
2. $56 \div 7 = 8$ cm per sample.
3. $7 \times 8 = 56$ cm checks the cut.

Problem 2

1. $36 \div 4 = 9$ items belong in the small pack.
2. $4 \times 9 = 36$ items belong in the large pack.
3. The pair $9, 36$ has factor $36 \div 9 = 4$.

Problem 3

1. Use $5 \times \square = 45$.
2. $45 \div 5 = 9$ L.
3. Check: $5 \times 9 = 45$ L.

Problem 4

1. $6 + 8 = 14$ m adds instead of making equal groups.
2. $8 \times 6 = 48$ m are required.
3. $48 \div 6 = 8$ verifies the repair.

Problem 5

1. School: $64 \div 8 = 8$.
2. Town: $72 \div 9 = 8$.
3. $8 \times 8 = 64$ and $8 \times 9 = 72$ check both.

Problem 6

1. Each of the 9 equal parts represents 5 cars.
2. $5 \times 9 = 45$ cars.
3. $45 \div 5 = 9$ checks the model.

Problem 7

1. $3 \times \square = 27$ represents the gardens.
2. $27 \div 3 = 9$ flowers.
3. $3 \times 9 = 27$ checks the smaller garden.

Problem 8

1. The new length is $6 \times 8 = 48$ pages.
2. $48 - 8 = 40$ new pages are needed.
3. $8 + 40 = 48$ pages checks the plan.

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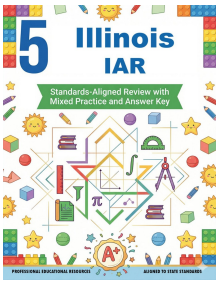

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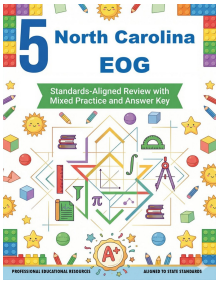

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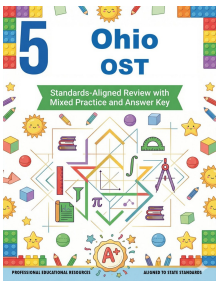

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