

Grade 4 - Multiplicative Comparison - Test

Common Core 4.OA.A.1, 4.OA.A.2 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This 20-point test checks multiplicative comparison (Common Core 4.OA.A.1 and 4.OA.A.2). Work alone, write equations with letters for the unknowns, and show your thinking. You have 40 minutes.

About this test

- Grade: Grade 4
- Chapter: Multiplicative Comparison
- Standards: 4.OA.A.1, 4.OA.A.2
- Time: 40 minutes
- Total: 20 points

Question 1 - Equations and sentences [2 pts]

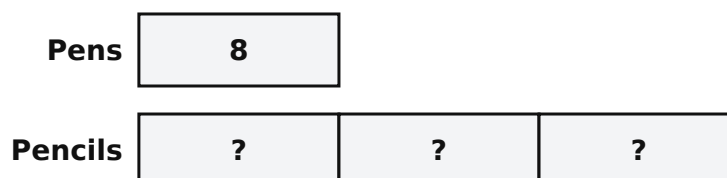
- Write a sentence that tells what $36 = 9 \times 4$ means. (1 point)
- Write a multiplication equation for this sentence: 56 is 7 times as many as 8. (1 point)

Question 2 - More and times [2 pts]

Mei has 5 stickers. Sofia has 20 stickers.

- Write a sentence that tells how many more stickers Sofia has than Mei. (1 point)
- Write a sentence that tells how many times as many stickers Sofia has as Mei. (1 point)

Question 3 - Bar model [2 pts]



Each small bar equals the number of pens.

The bar model compares the number of pens with the number of pencils in a drawer. There are 8 pens. There are 3 times as many pencils as pens. Write an equation with the letter p for the number of pencils and solve it.

Question 4 - Unknown length [2 pts]

A python is 21 feet long. It is 7 times as long as a garden snake. Write an equation with the letter s for the length of the garden snake and solve it.

Question 5 - How many times [2 pts]

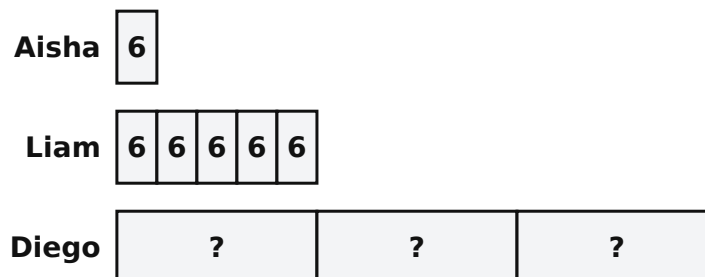
A scooter costs \$72. A helmet costs \$9. The scooter costs how many times as much as the helmet? Write an equation with the letter n and solve it.

Question 6 - Saving money [2 pts]

Noah saved \$15.00. His sister saved 4 times as much as Noah.

- How much did his sister save? (1 point)
- How much more did his sister save than Noah? (1 point)

Question 7 - Marble collection [3 pts]



Marbles: Aisha has 6.

Aisha has 6 marbles. Liam has 5 times as many marbles as Aisha. Diego has 3 times as many marbles as Liam.

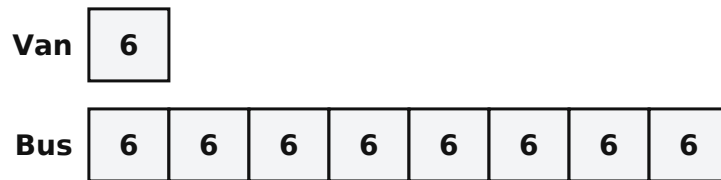
- How many marbles does Liam have? (1 point)
- How many marbles does Diego have? (1 point)
- How many marbles do the three friends have in all? (1 point)

Question 8 - Find the mistake [3 pts]

Ethan says that if Mei has 4 times as many stickers as Jamal, who has 6, then Mei has 10 stickers because $6 + 4 = 10$.

- Find how many stickers Mei has. (1 point)
- Explain Ethan's mistake. (1 point)
- Find how many more stickers Mei has than Jamal. (1 point)

Question 9 - Bus and van [2 pts]



A van seats 6 students.

A school bus holds 48 students. A minivan holds 6 students. The bus holds how many times as many students as the minivan? Write an equation with the letter n and solve it.