

Grade 4 - Multiplicative Comparison - Test Answer Key

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

Use this answer key to score the test. Each solution shows the equation and the answer, and the scoring note tells how the points are awarded. Total: 20 points.

Grade 4 · Common Core State Standards: **4.OA.A.1, 4.OA.A.2**

Question 1 - Equations and sentences [2 pts]

- a. 36 is 9 times as many as 4. (Also correct: 36 is 4 times as many as 9.)
- b. $56 = 7 \times 8$

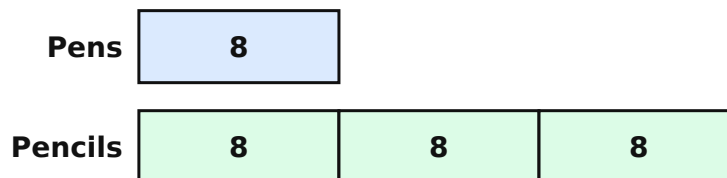
Scoring: 1 point for each correct part.

Question 2 - More and times [2 pts]

- a. $20 - 5 = 15$. Sofia has 15 more stickers than Mei.
- b. $20 = 4 \times 5$. Sofia has 4 times as many stickers as Mei.

Scoring: 1 point for each sentence with the correct number.

Question 3 - Bar model [2 pts]



Three bars of 8 make 24.

$$p = 3 \times 8 = 24$$

24 pencils

Scoring: 1 point for the equation. 1 point for 24.

Question 4 - Unknown length [2 pts]

$$21 = 7 \times s. \text{ Divide: } s = 21 \div 7 = 3.$$

$$\text{Check: } 7 \times 3 = 21.$$

3 feet

Scoring: 1 point for the equation. 1 point for 3 feet.

Question 5 - How many times [2 pts]

$$72 = n \times 9. \text{ Divide: } n = 72 \div 9 = 8.$$

$$\text{Check: } 8 \times 9 = 72.$$

8 times as much

Scoring: 1 point for the equation. 1 point for 8.

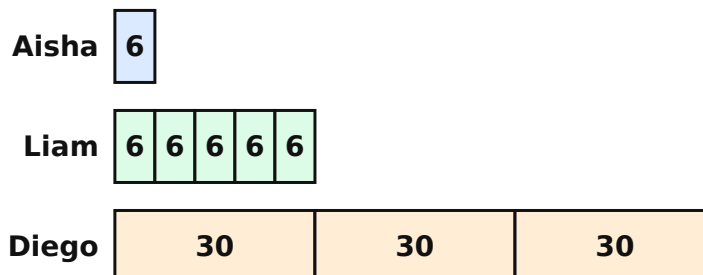
Question 6 - Saving money [2 pts]

a. $4 \times 15 = 60$. \$60.00

b. $60 - 15 = 45$. \$45.00 **more**

Scoring: 1 point for each part.

Question 7 - Marble collection [3 pts]



Diego has three bars of 30.

a. $5 \times 6 = 30$. **30 marbles**

b. $3 \times 30 = 90$. **90 marbles**

c. $6+30+90=126$. **126 marbles**

Scoring: 1 point for each part.

Question 8 - Find the mistake [3 pts]
--

a. $4 \times 6 = 24$. **24 stickers**

b. "4 times as many" means multiply, but Ethan added 4. A multiplicative comparison needs multiplication.

c. $24 - 6 = 18$. **18 more stickers**

Scoring: 1 point for each part.

Question 9 - Bus and van [2 pts]

$48 = n \times 6$. Divide: $n = 48 \div 6 = 8$.

Check: $8 \times 6 = 48$.

8 times as many

Scoring: 1 point for the equation. 1 point for 8.

Total
20 points