

Grade 3 · Understanding Multiplication · Test Answer Key

Common Core 3.OA.A.1, 3.OA.A.3 · mathovore.fr

Use this answer key to score the multiplication test out of 20 points. Each solution shows the multiplication sentence and the scoring guide. Give partial credit when a student shows the right idea but makes a small counting error.

Grade 3 Common Core: 3.OA.A.1 · 3.OA.A.3

Question 1: Equal groups (2 points)

- a. $4 \times 5 = 20$.
- b. The 4 is the number of groups and the 5 is the number of dots in each group.

Scoring: (a) 1 point for the correct sentence with product 20. (b) 1 point for both meanings.

Question 2: Array (2 points)

- a. 3 rows with 7 in each row: $3 \times 7 = 21$.
- b. 21 stickers.

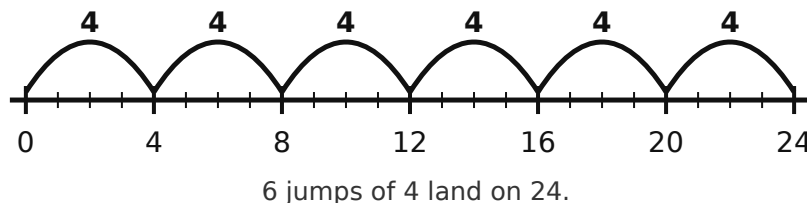
Scoring: (a) 1 point. (b) 1 point.

Question 3: Repeated addition (2 points)

- a. 8 is added 6 times: $6 \times 8 = 48$.
- b. $7 \times 3 = 21$.

Scoring: (a) 1 point for the sentence and product. (b) 1 point for the correct sentence.

Question 4: Number line jumps (2 points)



- a. 6 jumps, each 4 long: $6 \times 4 = 24$.
- b. The frog lands on 24.

Scoring: (a) 1 point. (b) 1 point.

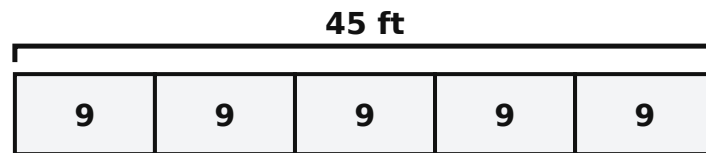
Question 5: Boxes of crayons (2 points)

8 groups of 4: $8 \times 4 = 32$.

Jamal buys 32 crayons.

Scoring: 1 point for a correct equation. 1 point for the answer of 32 crayons.

Question 6: Rope lengths (2 points)



5 equal parts

5 pieces of rope, each 9 feet long, total 45 feet.

5 equal pieces of 9 feet: $5 \times 9 = 45$.

The total length is 45 feet.

Scoring: 1 point for choosing multiplication with 5 and 9. 1 point for 45 feet with the unit.

Question 7: Unknown number (2 points)

$6 \times 5 = m$. Skip count by 5: 5, 10, 15, 20, 25, 30.

$m = 30$, so Maya has 30 marbles.

Scoring: 1 point for the equation. 1 point for the solution $m = 30$.

Question 8: Muffins and extras (3 points)

Muffins on trays: $3 \times 8 = 24$.

Add the basket: $24 + 6 = 30$.

There are 30 muffins in all.

Scoring: 1 point for 24. 1 point for adding 6. 1 point for the final answer of 30 muffins.

Question 9: Choose the story (3 points)

Story (b). In 3×8 , 3 is the number of groups and 8 is the number in each group. Story (b) has

3 packs of 8 cards: $3 \times 8 = 24$ cards.

Story (a) is an addition story, $3 + 8$. Story (c) has 8 groups of 8, which is 8×8 .

Scoring: 1 point for (b). 2 points for a correct explanation (1 point for the meaning of 3 and 8, 1 point for why (a) and (c) do not match).

Total
20 points