

Grade 3 · Understanding Multiplication · Test

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

Name: _____ Date: ____/____/____ Score: _____

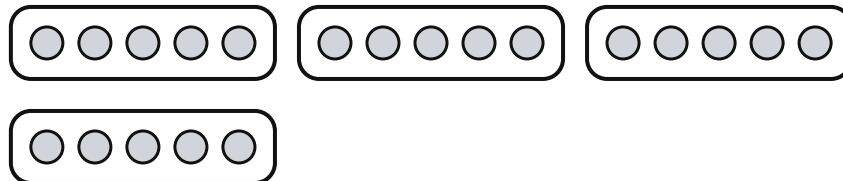
This 45-minute test checks Grade 3 understanding of multiplication (3.OA.A.1 and 3.OA.A.3). Students write multiplication sentences for groups, arrays and number lines, then solve word problems. The test has 9 questions worth 20 points in all.

Test information

- **Grade:** Grade 3
- **Chapter:** Understanding Multiplication
- **Common Core:** 3.OA.A.1, 3.OA.A.3
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 2 pts; Question 4: 2 pts; Question 5: 2 pts; Question 6: 2 pts; Question 7: 2 pts; Question 8: 3 pts; Question 9: 3 pts)

Question 1: Equal groups (2 points)

Look at the picture.



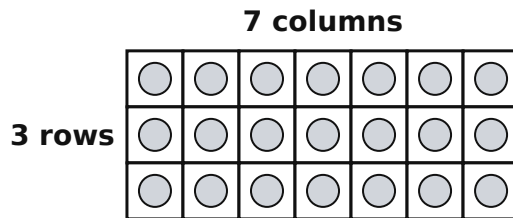
4 groups of 5

4 groups of 5 dots.

- Write a multiplication sentence for the picture. (1 point)
- Explain what the 4 and the 5 mean in your sentence. (1 point)

Question 2: Array (2 points)

A teacher arranges stickers as shown.



An array with 3 rows and 7 columns.

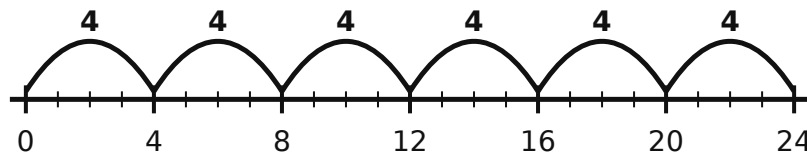
- a. Write a multiplication sentence for the array. (1 point)
- b. How many stickers are there? (1 point)

Question 3: Repeated addition (2 points)

- a. Write $8+8+8+8+8+8$ as a multiplication sentence and find the total. (1 point)
- b. Write the multiplication sentence for 7 groups of 3. (1 point)

Question 4: Number line jumps (2 points)

A frog makes the jumps shown.



6 jumps of 4 on a number line.

- a. Write a multiplication sentence for the jumps. (1 point)
- b. Where does the frog land? (1 point)

Question 5: Boxes of crayons (2 points)

Jamal buys 8 boxes of crayons. Each box has 4 crayons. How many crayons does he buy? Write an equation.

Question 6: Rope lengths (2 points)

Diego has 5 pieces of rope. Each piece is 9 feet long. What is the total length of the ropes?

Question 7: Unknown number (2 points)

Maya has 6 bags with 5 marbles in each bag. Write an equation using the letter m for the total number of marbles, then solve it.

Question 8: Muffins and extras (3 points)

A bakery puts 8 muffins on each of 3 trays. Then it adds 6 more muffins to a basket. How many muffins are there in all? Show each step.

Question 9: Choose the story (3 points)

Which story matches 3×8 ? Write the letter, then explain your choice.

- a. Ethan has 3 cards and 8 more cards.
- b. Ethan has 3 packs with 8 cards in each pack.
- c. Ethan has 8 packs with 8 cards in each pack.