

Grade 4 · Multiplicative Comparison and Multi-Step Problems · Quiz

Common Core 4.OA.A.1, 4.OA.A.2, 4.OA.A.3 · mathovore.fr

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

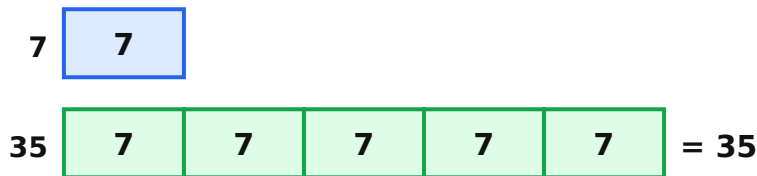
This 10-question quiz checks times-as-many comparisons, equations with a letter, multi-step problems, and estimation. Choose the one correct answer for each question, and decide first whether the situation needs adding or multiplying.

Grade 4 Common Core: 4.OA.A.1 · 4.OA.A.2 · 4.OA.A.3

Questions

Question 1

Which sentence matches $35 = 5 \times 7$?

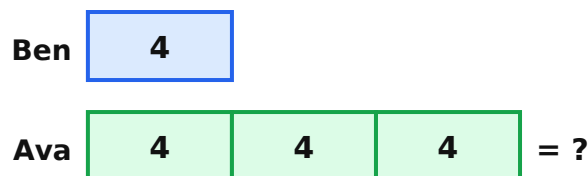


Five groups of 7.

- A. 35 is 5 times as many as 7
- B. 35 is 5 more than 7
- C. 7 is 5 times as many as 35
- D. 35 is 12 times as many as 7

Question 2

Ben has 4 marbles. Ava has 3 times as many marbles as Ben. How many marbles does Ava have?



Ava has 3 groups of 4.

- A. 7
- B. 43
- C. 1
- D. 12

Question 3

What is 6 times as many as 9?

- A. 15
- B. 45
- C. 54
- D. 63

Question 4

Which statement compares by multiplying?

- A. The rope is 3 times as long as the ribbon.
- B. The rope is 3 feet longer than the ribbon.
- C. The rope is 3 feet shorter than the ribbon.
- D. The rope and the ribbon are both 3 feet long.

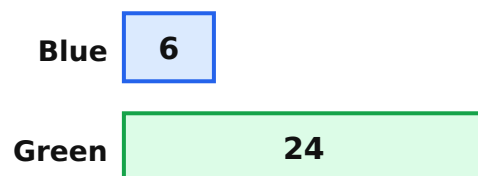
Question 5

The number 63 is 7 times as many as n . What is n ?

- A. 56
- B. 441
- C. 9
- D. 70

Question 6

How many times as long is the green bar as the blue bar?



Bars drawn to scale.

- A. 18
- B. 30
- C. 4
- D. 6

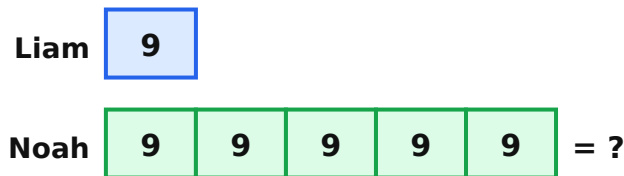
Question 7

A box has 72 crayons. That is 8 times as many as c . Which equation shows this?

- A. $8+c=72$
- B. $72\times 8=c$
- C. $c\div 8=72$
- D. $8\times c=72$

Question 8

Liam has 9 cards. Noah has 5 times as many cards as Liam. Then Noah gives 12 cards to Mei. How many cards does Noah have now?



Noah starts with 5 groups of 9.

- A. 21
- B. 33
- C. 57
- D. 54

Question 9

Sofia has 6 books. Priya has 3 times as many books as Sofia. How many books do they have together?

- A. 18
- B. 24
- C. 12
- D. 36

Question 10

Ethan has 49 cards. Maya has 6 times as many cards as Ethan. Which is the best estimate for Maya's cards?

- A. about 240
- B. about 360
- C. about 55
- D. about 300

Answer key

1. **A** - Five groups of 7 make 35, so 35 is 5 times as many as 7. Saying 5 more than 7 would be addition.
2. **D** - Multiply: $3 \times 4 = 12$. The answer 7 comes from adding instead of multiplying.
3. **C** - $6 \times 9 = 54$. The answer 15 comes from adding 6 and 9.
4. **A** - "Times as long" is a multiplicative comparison. "Longer" and "shorter" compare by adding or subtracting.
5. **C** - $7 \times n = 63$, so $n = 63 \div 7 = 9$. The answer 441 multiplies instead of dividing.
6. **C** - $24 \div 6 = 4$. The answer 18 is the difference, which compares by subtracting.
7. **D** - Eight times c equals 72, so $8 \times c = 72$. Solving gives $c = 9$.
8. **B** - Step 1: $5 \times 9 = 45$. Step 2: $45 - 12 = 33$. The answer 57 adds the 12 cards instead of subtracting.
9. **B** - Priya has $3 \times 6 = 18$ books, and $6 + 18 = 24$. The answer 18 is only Priya's books.
10. **D** - Round 49 to 50, then $50 \times 6 = 300$. The exact answer is 294.

Remember:

- A multiplication equation such as $35 = 5 \times 7$ can be read as 35 is 5 times as many as 7.
- Multiply to find a larger amount, and divide to find a smaller amount or the number of times.
- Times as many compares by multiplying; more than compares by adding.
- A letter stands for the unknown number in an equation.
- Estimate with rounding to check that an answer is reasonable.