

# Grade 4 · Division with Remainders · Quiz

Common Core 4.NBT.B.6, 4.OA.A.3 · mathovore.fr

Name: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Score: \_\_\_\_\_

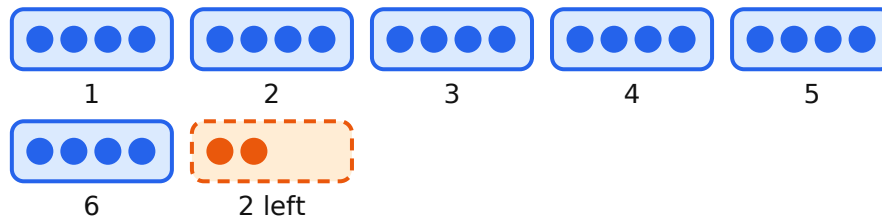
This 10-question quiz checks division with remainders, area models, and how to use a remainder in a word problem. Choose the one correct answer for each question, and use multiplication to check your choice before moving on.

**Grade 4 Common Core: 4.NBT.B.6 · 4.OA.A.3**

## Questions

### Question 1

What division does the figure show?



26 dots in groups of 4.

- A. 6 R 4
- B. 7 R 2
- C. 6 R 2
- D. 5 R 6

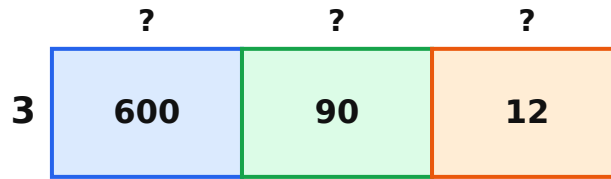
### Question 2

What is  $94 \div 4$ ?

- A. 23 R 4
- B. 24 R 2
- C. 22 R 6
- D. 23 R 2

### Question 3

What is the quotient shown by the area model?



Areas 600, 90, and 12.

- A. 324
- B. 234
- C. 243
- D. 2,034

#### Question 4

What is the largest remainder possible when dividing by 8?

- A. 8
- B. 9
- C. 6
- D. 7

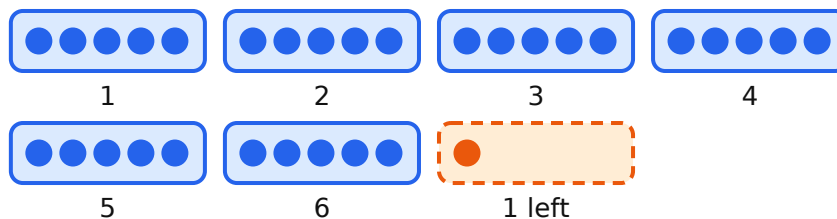
#### Question 5

Which number divided by 6 gives a quotient of 45 and a remainder of 4?

- A. 270
- B. 49
- C. 276
- D. 274

#### Question 6

Coach Rivera has 31 players. Each van holds 5 players. How many vans are needed to carry everyone?



31 players, 5 seats in a van.

- A. 7 vans
- B. 6 vans
- C. 5 vans
- D. 1 van

### Question 7

Mei counts 100 days of school. How many days are left after 14 full weeks?

- A. 14 days
- B. 7 days
- C. 2 days
- D. 3 days

### Question 8

What is  $5,000 \div 6$ ?

- A. 833 R 2
- B. 83 R 2
- C. 833 R 5
- D. 834 R 2

### Question 9

Which equation checks that  $87 \div 7 = 12 \text{ R } 3$ ?

- A.  $7 \times 3 + 12 = 33$
- B.  $7 \times 12 + 3 = 87$
- C.  $7 + 12 + 3 = 22$
- D.  $7 \times 12 - 3 = 81$

### Question 10

A shop packs 1,000 pencils into boxes of 8 and sells each box for . How much money does it make if it sells every box?

- A. 5
- B. 5
- C. 3
- D. ,000

## Answer key

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1. **C** – Six full groups of 4 use 24 dots, and 2 dots are left. A remainder of 4 or 6 is too big, because another group of 4 would fit.
2. **D** – Since  $4 \times 23 = 92$  and  $94 - 92 = 2$ , the answer is 23 R 2. A remainder must be smaller than the divisor.
3. **B** – Divide each area by 3:  $600 \div 3 = 200$ ,  $90 \div 3 = 30$ ,  $12 \div 3 = 4$ . Then add 200, 30, and 4.
4. **D** – A remainder must be less than the divisor. If 8 were left, another full group of 8 could be made.
5. **D** – Multiply and add the remainder:  $6 \times 45 + 4 = 274$ . The number 270 forgets to add the remainder.
6. **A** – The quotient 6 R 1 means 6 full vans plus 1 player left over. That player needs a van too, so round up to 7.
7. **C** – Since  $100 \div 7 = 14$  R 2, the remainder 2 is the number of days left over.
8. **A** – Since  $6 \times 833 = 4,998$  and  $5,000 - 4,998 = 2$ , the answer is 833 R 2. Dropping a zero gives 83 R 2.
9. **B** – To check a division, multiply the divisor by the quotient and add the remainder: 84 plus 3 equals 87.
10. **A** – Step 1:  $1,000 \div 8 = 125$  boxes. Step 2:  $125 \times 3 = 375$  dollars. The number 125 is only the first step.

### Remember:

- The remainder is always smaller than the divisor.
- Check any answer with divisor times quotient, plus remainder, which must equal the dividend.
- An area model splits the dividend into hundreds, tens, and ones that the divisor can share evenly.
- Long division works left to right: divide, multiply, subtract, bring down.
- In word problems, ignore the remainder, round the quotient up, or report the remainder, depending on the question.