

Grade 6 · Multi-Digit Division · Quiz

Common Core 6.NS.B.2 · mathovore.fr

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

This 10-question multiple-choice quiz checks multi-digit division skills from Common Core 6.NS.B.2. Choose one answer for each question. The explanation after each question shows the correct step and the mistake to avoid.

Grade 6 Common Core: 6.NS.B.2

Questions

Question 1

What is $624 \div 4$?

- A. 146
- B. 166
- C. 152
- D. 156

Question 2

What is $1,560 \div 12$?

- A. 13
- B. 120
- C. 138
- D. 130

Question 3

What is $4,096 \div 32$?

- A. 126
- B. 128
- C. 132
- D. 138

Question 4

What is $925 \div 40$? Write the quotient and remainder.

- A. 23 R 15
- B. 24 R 5

- C. 23 R 5
- D. 22 R 45

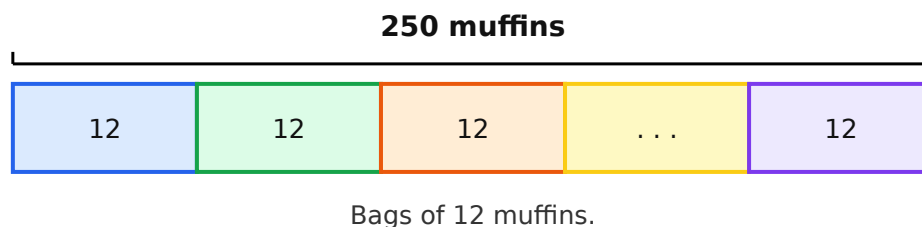
Question 5

Which is the best estimate of $7,812 \div 39$?

- A. About 20
- B. About 200
- C. About 2,000
- D. About 300

Question 6

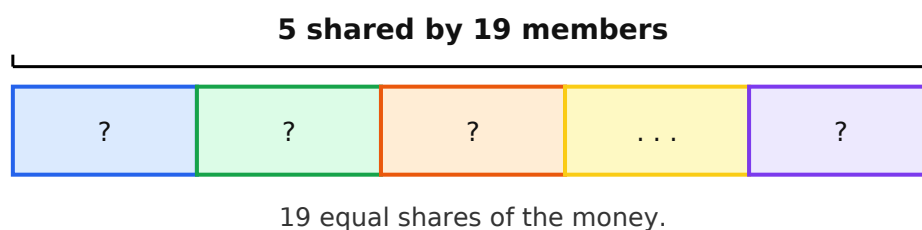
A bakery has 250 muffins and puts 12 in each bag. How many bags are needed to hold every muffin?



- A. 21 bags
- B. 20 bags
- C. 22 bags
- D. 10 bags

Question 7

Priya's club raised \$475 and splits it equally among 19 members. How much does each member get?



- A. \$25
- B. \$26
- C. \$35
- D. \$250

Question 8

Which equation checks that $1,368 \div 18 = 76$?

- A. $76+18=1,368$
- B. $76\times 1,368=18$
- C. $76\times 18=1,368$
- D. $1,368\times 18=76$

Question 9

What is the remainder when 7,200 is divided by 35?

- A. 5
- B. 20
- C. 25
- D. 35

Question 10

In $3,276\div 12$, in which place does the first digit of the quotient go?

32 hundreds?

$$\boxed{3 \ 2} \ 7 \ 6 \quad \div \ 12$$

The dividend 3,276 divided by 12.

- A. Hundreds
- B. Thousands
- C. Tens
- D. Ones

Answer key

1. **D** – Divide place by place: 4 into 6 is 1 remainder 2, 4 into 22 is 5 remainder 2, 4 into 24 is 6. A common slip is a subtraction error in one step, which changes the middle digit.
2. **D** – 12 into 15 is 1, 12 into 36 is 3, and the final 0 gives a 0 in the quotient. Forgetting to write that last 0 gives 13.
3. **B** – 32 into 40 is 1 remainder 8, 32 into 89 is 2 remainder 25, 32 into 256 is 8. Check: $32 \times 128 = 4,096$.
4. **C** – $40 \times 23 = 920$ and $925 - 920 = 5$. A remainder of 45 is impossible because a remainder must be smaller than the divisor.
5. **B** – Compatible numbers: $8,000 \div 40 = 200$. Estimates of 20 or 2,000 are off by a factor of 10 from a misplaced digit.
6. **A** – $250 \div 12 = 20$ R 10. The 10 extra muffins need another bag, so round up to 21. Dropping the remainder gives 20, which leaves muffins out.
7. **A** – $475 \div 19 = 25$, because $19 \times 25 = 475$. Answers of \$35 or \$250 come from placing a digit incorrectly.
8. **C** – Division is checked by multiplying the quotient by the divisor to get back the dividend: $76 \times 18 = 1,368$.
9. **C** – $7,200 \div 35 = 205$ R 25, because $35 \times 205 = 7,175$ and $7,200 - 7,175 = 25$. A remainder can never equal the divisor.
10. **A** – 12 is larger than 3, so use 32 hundreds. 12 goes into 32 two times, so the first digit goes in the hundreds place. The quotient is 273.

Remember:

- Each round of long division repeats four steps: divide, multiply, subtract, bring down.
- A remainder is always smaller than the divisor.
- Estimate with compatible numbers, such as $8,000 \div 40$, to catch a misplaced digit.
- Check by computing $\text{quotient} \times \text{divisor} + \text{remainder}$ to get the dividend.
- In word problems, decide whether to round up, drop, or report the remainder.