

Grade 5 - Dividing by Two-Digit Divisors - Quiz

Common Core 5.NBT.B.6 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

Answer these 10 multiple-choice questions about dividing by two-digit divisors. Choose the one best answer for each question. Some questions show partial quotients or an area model. Read each explanation to see how to check your work.

Grade 5 · Common Core State Standards: **5.NBT.B.6**

Questions

Question 1

What is $144 \div 12$?

- A. 12
- B. 14
- C. 10
- D. 1,728

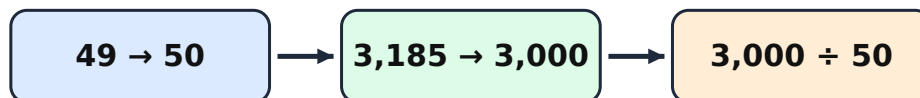
Question 2

What is $585 \div 15$?

- A. 29
- B. 49
- C. 39
- D. 390

Question 3

Which is the best estimate for $3,185 \div 49$?



Round both numbers.

- A. 60
- B. 600
- C. 6

D. 160

Question 4

What is $1,000 \div 32$?

- A. 31 R 28
- B. 31 R 8
- C. 32 R 8
- D. 30 R 40

Question 5

Which check shows that $475 \div 22 = 21 \text{ R } 13$ is correct?

- A. $22 \times 21 - 13 = 475$
- B. $22 \times 13 + 21 = 475$
- C. $21 \times 13 + 22 = 475$
- D. $22 \times 21 + 13 = 475$

Question 6

What is $6,400 \div 80$?

- A. 8
- B. 800
- C. 520
- D. 80

Question 7

Sofia has 648 cupcakes and puts 36 on each tray. How many trays does she need?

- A. 16 trays
- B. 18 trays
- C. 24 trays
- D. 180 trays

Question 8

The picture shows partial quotients for $1,872 \div 24$. What is the quotient?

$$\begin{array}{r}
 24 \overline{) 1872} \\
 \underline{- 1200} \quad 24 \times 50 \\
 672 \\
 \underline{- 480} \quad 24 \times 20 \\
 192 \\
 \underline{- 192} \quad 24 \times 8 \\
 0
 \end{array}$$

Quotient: ?

Add the multipliers.

- A. 68
- B. 78
- C. 87
- D. 708

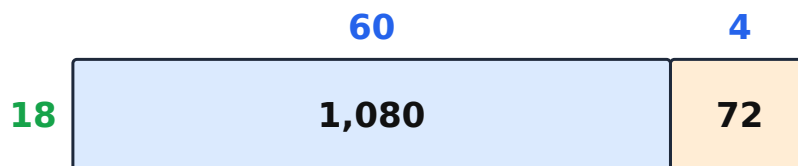
Question 9

A school has 250 students. Each bus holds 48 students. How many buses does the school need?

- A. 6 buses
- B. 5 buses
- C. 5 R 10 buses
- D. 10 buses

Question 10

What is $1,152 \div 18$?



Add the widths.

- A. 60
- B. 74
- C. 64
- D. 604

Answers

1. **A** - $12 \times 12 = 144$. The answer 1,728 comes from multiplying instead of dividing.
2. **C** - $15 \times 30 = 450$, and $585 - 450 = 135$. $15 \times 9 = 135$. So $30 + 9 = 39$.
3. **A** - $3,000 \div 50 = 60$. The exact answer is 65, so 60 is close.
4. **B** - $32 \times 31 = 992$ and $1,000 - 992 = 8$. A remainder of 40 is larger than 32, so it cannot be right.
5. **D** - Multiply the divisor by the quotient, then add the remainder: $462 + 13 = 475$.
6. **D** - 640 tens divided by 8 tens is 80. Check: $80 \times 80 = 6,400$.
7. **B** - $36 \times 18 = 648$, so $648 \div 36 = 18$.
8. **B** - $50 + 20 + 8 = 78$. The answer 708 is a place value error.
9. **A** - $250 \div 48 = 5 \text{ R } 10$. The 10 extra students need another bus, so 6 buses.
10. **C** - The widths are 60 and 4, so the quotient is $60 \div 4 = 15$.

Remember

- The dividend is divided by the divisor to give the quotient.
- Partial quotients break the answer into easy pieces that add up to the quotient.
- An area model shows the dividend as an area with the divisor as one side.
- A remainder is always smaller than the divisor.
- Check by multiplying the quotient by the divisor and adding the remainder.