

Grade 4 - Multiplying Multi-Digit Numbers - Quiz

Common Core 4.NBT.B.5 · maths-pdf.fr/en/

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

Choose the best answer for each of the 10 questions about multiplying multi-digit numbers.
Read each question carefully, then check the explanation to learn from any mistake.

Grade 4 · Common Core State Standards: **4.NBT.B.5**

Questions

Question 1

What is 40×30 ?

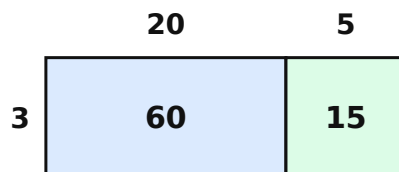
- A. 120
- B. 70
- C. 1,200
- D. 12,000

Question 2

What is 7×600 ?

- A. 4,200
- B. 420
- C. 42,000
- D. 607

Question 3



Area model for 3×25 .

What is the product shown by the area model?

- A. 65
- B. 85
- C. 15

D. 75

Question 4

What is $1,235 \times 4$?

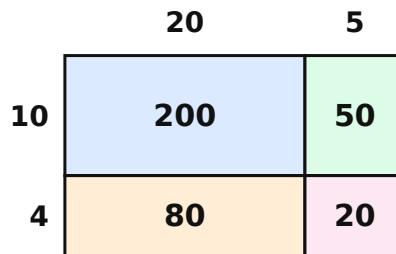
- A. 4,540
- B. 4,840
- C. 4,940
- D. 5,040

Question 5

What is 23×12 ?

- A. 266
- B. 276
- C. 286
- D. 46

Question 6



Area model for 14×25 .

What is 14×25 ?

- A. 350
- B. 280
- C. 3,500
- D. 340

Question 7

Which expression equals $4 \times 13 \times 25$?

- A. 100×13
- B. 29×13
- C. 4×38
- D. $100 + 13$

Question 8

Which is the best estimate for 62×38 ?

- A. 1,800
- B. 2,400
- C. 3,000
- D. 240

Question 9

Each school bus holds 48 students. How many students can 7 buses hold?

- A. 55
- B. 336
- C. 326
- D. 356

Question 10

Sections	1,275	1,275	1,275	1,275	1,275	1,275	1,275	1,275
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Eight sections of 1,275 seats.

How many seats are in all eight sections?

- A. 8,200
- B. 9,800
- C. 1,283
- D. 10,200

Answers

1. **C** - $4 \times 3 = 12$, and two zeros are attached: 1,200. Forgetting the zeros gives 120.
2. **A** - $7 \times 6 = 42$, then attach two zeros: 4,200.
3. **D** - $60 + 15 = 75$. Adding the factors in some other way, or using only one part, leads to wrong totals like 15.
4. **C** - $4 \times 1,000 = 4,000$; $4 \times 200 = 800$; $4 \times 30 = 120$; $4 \times 5 = 20$. The sum is 4,940.
5. **B** - $23 \times 10 = 230$ and $23 \times 2 = 46$. Then $230 + 46 = 276$.
6. **A** - $200 + 50 + 80 + 20 = 350$. Leaving out one of the four cells gives a smaller total such as 280 or 340.
7. **A** - $4 \times 25 = 100$, so by the associative property $4 \times 13 \times 25 = 100 \times 13 = 1,300$.
8. **B** - Round to $60 \times 40 = 2,400$. The exact product is 2,356.
9. **B** - $48 \times 7 = 40 \times 7 + 8 \times 7 = 280 + 56 = 336$. Adding $48 + 7$ gives 55.
10. **D** - $8 \times 1,275 = 8,000 + 1,600 + 560 + 40 = 10,200$. Adding $8 + 1,275$ gives 1,283.

Remember

- Partial products are the answers to each smaller multiplication; add them for the final product.
- Distributive property: $6 \times 47 = 6 \times 40 + 6 \times 7$.
- A 2-digit by 2-digit problem has four partial products in an area model.
- For multiples of 10, multiply the basic facts and attach all the zeros: $30 \times 40 = 1,200$.
- Estimate first by rounding to check that the product makes sense.