

Grade 5 · Operations with Decimals · Quiz

Common Core 5.NBT.B.7 · mathovore.fr

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

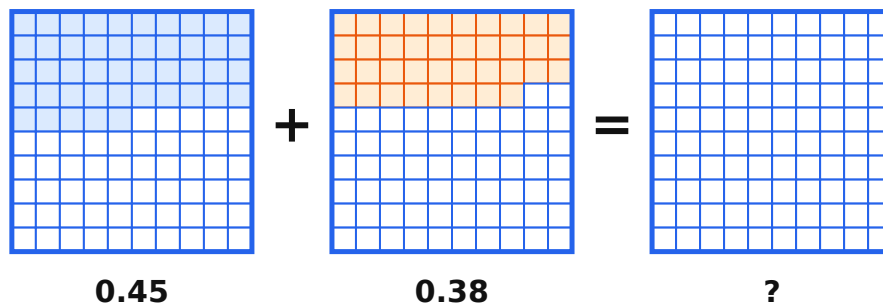
Take this ten-question quiz to check your skills with decimal operations, from grids and strips to money problems. Each question has exactly one correct answer. Read the explanation after each answer, especially when you miss one, because it shows the common mistake behind the wrong choices.

Grade 5 Common Core: 5.NBT.B.7

Questions

Question 1

What sum do the grids show?



Blue and orange squares together.

- A. 0.73
- B. 0.713
- C. 8.3
- D. 0.83

Question 2

What is $5.2 + 0.46$?

- A. 5.66
- B. 0.98
- C. 5.46
- D. 5.246

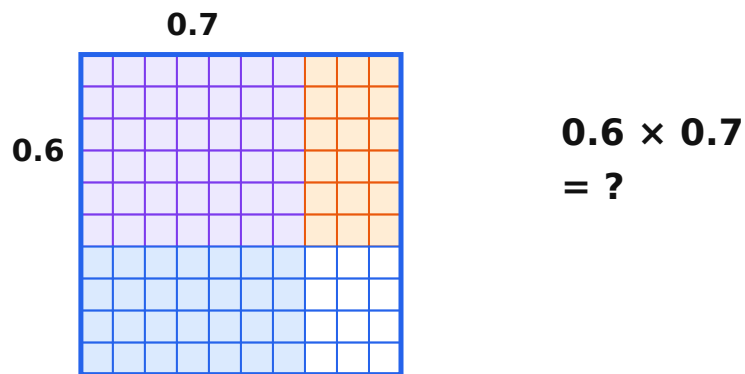
Question 3

What is $8 - 3.65$?

- A. 5.65
- B. 4.45
- C. 4.65
- D. 4.35

Question 4

Which product does the grid model?



Rows show 0.6, columns show 0.7.

- A. 4.2
- B. 0.42
- C. 0.13
- D. 0.042

Question 5

What is 3.4×0.5 ?

- A. 17
- B. 0.17
- C. 1.7
- D. 3.9

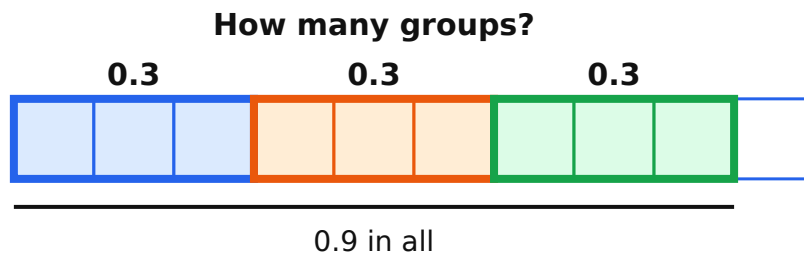
Question 6

What is 1.5×2.4 ?

- A. 36
- B. 3.6
- C. 0.36
- D. 3.9

Question 7

What is $0.9 \div 0.3$?



Nine tenths in groups of three tenths.

- A. 3
- B. 0.3
- C. 27
- D. 30

Question 8

What is $4.8 \div 0.6$?

- A. 0.8
- B. 8
- C. 80
- D. 2.88

Question 9

What is $7.35 \div 5$?

- A. 1.47
- B. 14.7
- C. 0.147
- D. 1.57

Question 10

Jamal buys 3 notebooks for .75 each and pays with a bill. How much change does he get?

- A. .25
- B. .25
- C. .75
- D. .25

Answer key

1. **D** – 45 squares plus 38 squares is 83 squares, or 0.83. Forgetting to regroup 13 hundredths gives the common wrong answer 0.73.
2. **A** – Write 5.2 as 5.20 and add: $5.20 + 0.46 = 5.66$. Lining digits up on the right instead of by the decimal point gives 0.98.
3. **D** – Write 8 as 8.00 and subtract: $8.00 - 3.65 = 4.35$. Subtracting 5 from 0 the wrong way round gives 5.65.
4. **B** – Six rows and seven columns overlap in 42 squares out of 100, so the product is 0.42. Counting $0.6 + 0.7$ gives 1.3.
5. **C** – $34 \times 5 = 170$, and the factors have 2 decimal places in all, so the product is 1.70, or 1.7. Forgetting to place the point gives 17.
6. **B** – $15 \times 24 = 360$ with 2 decimal places gives 3.60, or 3.6. An estimate of $1.5 \times 2.4 \approx 2 \times 2.5 = 5$ shows 36 and 0.36 are unreasonable.
7. **A** – Nine tenths make 3 groups of three tenths. Dividing 9 by 3 and then placing a decimal point in the answer is a common mistake.
8. **B** – Multiply both numbers by 10: $48 \div 6 = 8$. Multiplying 4.8 and 0.6 gives 2.88, which is a different operation.
9. **A** – Divide 735 by 5 to get 147, and keep the decimal point in the same place: 1.47. Check: $5 \times 1.47 = 7.35$.
10. **C** – $3 \times .75 = .25$ is the total cost. The change is $.00 - .25 = .75$. Giving the total instead of the change is a common mistake.

Remember:

- Line up decimal points before adding or subtracting.
- Write zeros in empty places, such as 2.8 as 2.80, to keep columns even.
- A product has as many decimal places as both factors together.
- Multiplying the divisor and dividend by the same power of 10 keeps the quotient.
- Estimate first, then use the inverse operation to check.