

Grade 5 - Multiplying and Dividing Decimals - Quiz

Common Core 5.NBT.B.7 · maths-pdf.fr/en/

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

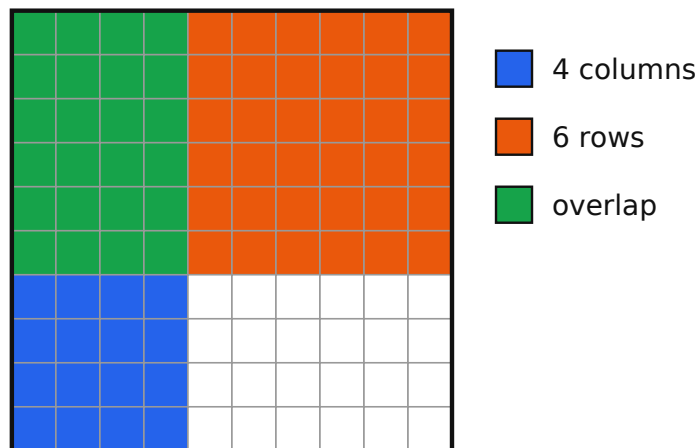
Answer these 10 multiple-choice questions on multiplying and dividing decimals. Each question has one correct answer. Use scratch paper to multiply, divide, or estimate, and read the explanation after each answer.

Grade 5 · Common Core State Standards: **5.NBT.B.7**

Questions

Question 1

The grid model shows a decimal product. What is it?



- A. $0.4 \times 0.6 = 2.4$
- B. $0.4 \times 0.6 = 0.024$
- C. $0.4 \times 0.6 = 24$
- D. $0.4 \times 0.6 = 0.24$

Question 2

Which is the product of 5.2×0.3 ?

- A. 1.56
- B. 15.6
- C. 0.156
- D. 156

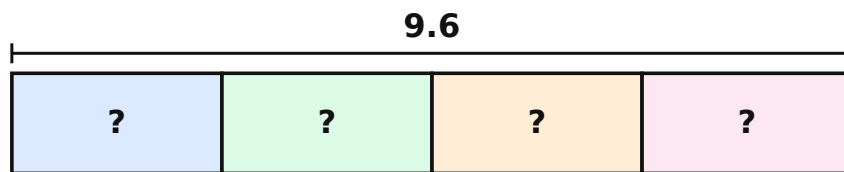
Question 3

What is 0.25×0.8 ?

- A. 0.02
- B. 0.2
- C. 2
- D. 0.002

Question 4

The tape diagram shows 9.6 shared equally. What is the value of each part?



Four equal parts.

- A. 2.04
- B. 24
- C. 0.24
- D. 2.4

Question 5

Find $0.56 \div 7$.

- A. 0.8
- B. 0.008
- C. 0.08
- D. 8

Question 6

Find $3.5 \div 0.5$.

- A. 0.7
- B. 7
- C. 70
- D. 1.75

Question 7

Which expression has the same value as $4.2 \div 0.06$?

- A. $42 \div 6$
- B. $420 \div 6$
- C. $4.2 \div 6$
- D. $4,200 \div 6$

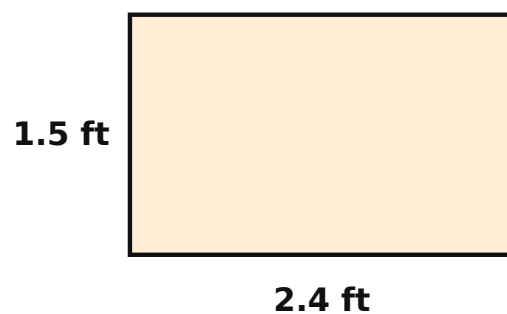
Question 8

Mei buys 1.5 pounds of cheese at \$4.80 per pound. How much does she pay?

- A. \$7.20
- B. \$6.30
- C. \$72.00
- D. \$0.72

Question 9

A rectangle is 2.4 feet by 1.5 feet. What is its area?



A rectangle.

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

Question 10

A 7.2-mile trail has a sign every 0.9 mile. How many equal sections does the trail have?

- A. 80 sections
- B. 0.8 section
- C. 8 sections
- D. 6.3 sections

Answers

1. **D** - The overlap has $4 \times 6 = 24$ squares out of 100, so the product is 0.24. The mistake is placing the decimal point wrongly.
2. **A** - $52 \times 3 = 156$. The factors have $1 + 1 = 2$ decimal places, so the product is 1.56.
3. **B** - $25 \times 8 = 200$ with 3 decimal places is 0.200, which equals 0.2. Many students forget that trailing zeros can be dropped.
4. **D** - $96 \div 4 = 24$, and keeping the decimal point in line gives 2.4. Writing 2.04 inserts an extra zero.
5. **C** - $56 \div 7 = 8$. Since 0.56 has hundredths, the answer is 8 hundredths, or 0.08.
6. **B** - Multiply both by 10: $35 \div 5 = 7$. Dividing by a number less than 1 gives a larger quotient.
7. **B** - 0.06 has 2 decimal places, so multiply both numbers by 100: 4.2 becomes 420 and 0.06 becomes 6.
8. **A** - $1.5 \times 4.80 = 7.20$. Adding the numbers gives \$6.30, which is the typical mistake.
9. **A** - $24 \times 15 = 360$ with 2 decimal places is 3.60, so the area is 3.6 square feet. Adding the sides gives 3.9, which is perimeter work.
10. **C** - $7.2 \div 0.9 = 72 \div 9 = 8$. Subtracting gives 6.3, which is the wrong operation.

Remember

- The product of two decimals has as many decimal places as both factors together.
- A hundredths grid shows 0.3 times 0.4 as 12 squares, which is 0.12.
- When dividing by a whole number, keep the decimal point in line.
- Multiplying both numbers by 10, 100, or 1,000 does not change a quotient.
- Estimate first to check where the decimal point belongs.