

Grade 6 - Multi-Digit and Decimal Operations - Quiz

Common Core 6.NS.B.2, 6.NS.B.3 · maths-pdf.fr/en/

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

This quiz has 10 multiple-choice questions on multi-digit division and decimal operations (Common Core 6.NS.B.2 and 6.NS.B.3). Choose one answer for each question and read the explanation to see the common mistake.

Grade 6 · Common Core State Standards: **6.NS.B.2, 6.NS.B.3**

Questions

Question 1

What is $3,648 \div 16$?

- A. 228
- B. 218
- C. 238
- D. 2,280

Question 2

What is $4.8 + 12.35$?

	Tens	Ones	.	Tenths	Hundredths
		4	.	8	0
+	1	2	.	3	5

Line up the decimal points.

- A. 16.83
- B. 17.15
- C. 17.83
- D. 60.5

Question 3

What is 0.6×0.7 ?

- A. 4.2
- B. 0.042

- C. 1.3
- D. 0.42

Question 4

What is $15 - 6.28$?

- A. 9.28
- B. 9.72
- C. 8.72
- D. 8.28

Question 5

What is $5.4 \div 0.06$?

- A. 90
- B. 9
- C. 0.9
- D. 900

Question 6

A pencil costs \$0.35. What is the cost of 12 pencils?

- A. \$0.42
- B. \$4.20
- C. \$42.00
- D. \$3.50

Question 7

Which quotient is correct?

Problem	Quotient
$7.2 \div 0.8$	9
$7.2 \div 8$	0.9

Compare quotients.

- A. $7.2 \div 0.8 = 0.9$
- B. $7.2 \div 0.8 = 9$
- C. $7.2 \div 0.8 = 90$
- D. $7.2 \div 0.8 = 5.76$

Question 8

Which is the best estimate for $48.7 \div 0.51$?

- A. 10

- B. 25
- C. 1,000
- D. 100

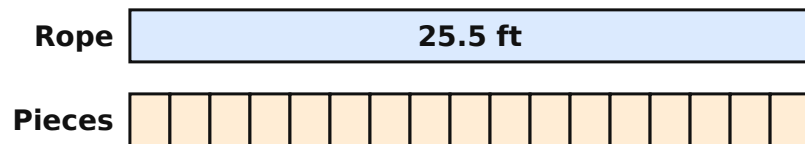
Question 9

A recipe uses 0.75 cup of oil. How many cups of oil are used for 8 batches?

- A. 6
- B. 0.6
- C. 60
- D. 8.75

Question 10

A rope 25.5 feet long is cut into pieces 1.5 feet long. How many pieces are there?



Seventeen pieces.

- A. 27
- B. 38.25
- C. 17
- D. 24

Answers

1. **A** - $16 \times 200 = 3,200$, $16 \times 28 = 448$, so 228. Check: $228 \times 16 = 3,648$.
2. **B** - Line up the decimal points: $4.80 + 12.35 = 17.15$. Aligning to the right gives the wrong sums.
3. **D** - $6 \times 7 = 42$ and there are 2 decimal places, so 0.42.
4. **C** - $15.00 - 6.28 = 8.72$. A borrowing slip gives 9.72.
5. **A** - Multiply both by 100: $540 \div 6 = 90$.
6. **B** - $0.35 \times 12 = 4.20$. Misplacing the decimal gives \$42.00.
7. **B** - $72 \div 8 = 9$. Dividing by 0.8 makes the quotient larger than $7.2 \div 8$.
8. **D** - 48.7 is about 50, and 0.51 is about 0.5; $50 \div 0.5 = 100$.
9. **A** - $0.75 \times 8 = 6$.
10. **C** - $25.5 \div 1.5 = 255 \div 15 = 17$.

Remember

- Line up decimal points to add or subtract.
- To multiply decimals, multiply as whole numbers and count the decimal places in both factors.
- To divide by a decimal, multiply the divisor and dividend by the same power of 10.
- Partial quotients subtract friendly multiples of the divisor.
- Estimate first to check the position of the decimal point.