

Grade 6 · Adding, Subtracting, Multiplying and Dividing Decimals · Test

Common Core 6.NS.B.3 · mathovore.fr

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

This 45-minute test covers decimal operations from Common Core 6.NS.B.3. It has 9 questions worth 20 points in total. Show all work, place each decimal point carefully, and write money answers with a dollar sign.

Test information

- **Grade:** Grade 6
- **Chapter:** Adding, Subtracting, Multiplying and Dividing Decimals
- **Common Core:** 6.NS.B.3
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 2 pts; Question 4: 2 pts; Question 5: 3 pts; Question 6: 2 pts; Question 7: 3 pts; Question 8: 2 pts; Question 9: 2 pts)

Question 1: Add and subtract decimals (2 points)

Find each value.

a. $18.6 + 7.95$ (1 point)

b. $40 - 16.375$ (1 point)

$$\begin{array}{r} 18.60 \\ + 7.95 \\ \hline \end{array}$$

Decimal points lined up for part a.

Question 2: Multiply decimals (2 points)

Find each product.

- a. 5.7×0.8 (1 point)
- b. 12.4×3.5 (1 point)

Question 3: Divide decimals (2 points)

Find each quotient.

- a. $9.18 \div 6$ (1 point)
- b. $5.04 \div 0.28$ (1 point)

Question 4: Find the error (2 points)

Aisha writes $3.2 \times 0.5 = 16$. Explain her mistake and find the correct product.

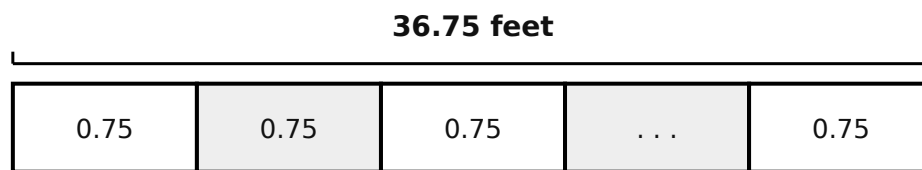
Question 5: Grocery bill (3 points)

Aisha buys 2.4 pounds of apples at \\$1.85 per pound and 0.75 pound of cheese at \\$6.40 per pound.

- a. Find the cost of the apples. (1 point)
- b. Find the cost of the cheese. (1 point)
- c. She pays with a \\$10 bill. Find her change. (1 point)

Question 6: Fence boards (2 points)

Each fence board is 0.75 foot wide. A fence section is 36.75 feet long. Find the number of boards needed to cover the section exactly.



Boards of width 0.75 foot.

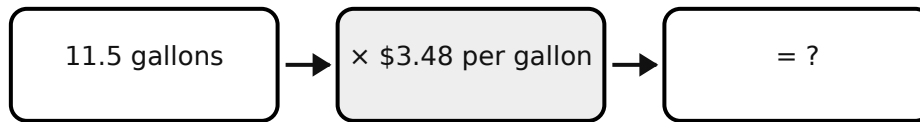
Question 7: Rainfall totals (3 points)

The rainfall was 0.45 inch on Monday, 1.2 inches on Tuesday, and 0.075 inch on Wednesday.

- a. Find the total rainfall for the three days. (2 points)
- b. Find how many more inches are needed to reach 3 inches. (1 point)

Question 8: Buying gas (2 points)

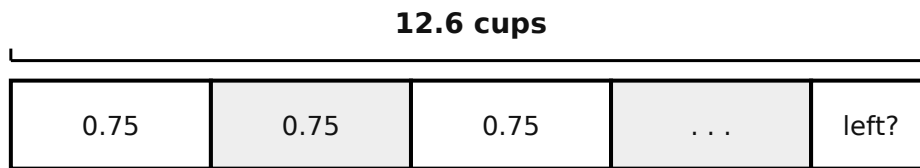
Sofia buys 11.5 gallons of gas at \\$3.48 per gallon. Find the total cost in dollars and cents.



Total gas cost.

Question 9: Punch servings (2 points)

One serving of punch uses 0.75 cup of juice. Maya has 12.6 cups of juice. Find the number of full servings she can make and the amount of juice left over.



Servings of 0.75 cup.