

Decimal Operations: Add, Subtract, Multiply, Divide

Grade 6 math · Test · Standards: 6.NS.B.3

Name: _____ Date: _____ Class: _____

This test has 9 questions worth 20 points in total and fits a 45-minute period. Show all work, line up decimal points when adding or subtracting, and include units or dollar signs in word problems.

Standards: 6.NS.B.3 · **Level:** Grade 6

Time: 45 minutes · 9 questions · Total: 20 points · Calculator: as allowed by your teacher

Question 1 Add and Subtract (2 points)

- a. Find $18.6 + 7.45$. (1 point)
- b. Find $30 - 12.38$. (1 point)

Question 2 Multiply (2 points)

- a. Find 5.8×0.4 . (1 point)
- b. Find 0.36×0.15 . (1 point)

Question 3 Divide (2 points)

- a. Find $14.4 \div 6$. (1 point)
- b. Find $0.54 \div 0.09$. (1 point)

Question 4 Find the Error (2 points)

A student added $3.7 + 12.45$ as shown.

$$\begin{array}{r} 12.45 \\ + \quad 3.7 \\ \hline 12.82 \end{array}$$

A student's work.

Explain the error and find the correct sum.

Question 5 Estimate and Multiply (2 points)

- a. Estimate 24.8×3.1 by rounding. (1 point)
- b. Find the exact product. (1 point)

Question 6 Butter for Cookies (3 points)

A bakery uses 0.35 pound of butter in each batch of cookies and has 8.4 pounds of butter.

- a. How many batches can it make? (2 points)
- b. How much butter is left after 20 batches? (1 point)

Question 7 Store Receipt (3 points)

The receipt shows a school-supply purchase.

3 notebooks at \$1.85	\$5.55
2 pens at \$0.95	\$1.90
1 folder	\$2.40
Total	?

School supplies.

- a. Find the total. (2 points)
- b. Find the change from a \$20 bill. (1 point)

Question 8 Bike Shop Profit (3 points)

A bike shop buys 25 helmets for \$14.80 each and sells every helmet for \$21.95. What is the shop's profit?

Question 9 Place the Point (1 point)

Given $38 \times 52 = 1,976$, write the product 3.8×5.2 without recalculating.