

Grade 5 · Operations with Decimals · Test Answer Key

Common Core 5.NBT.B.7 · mathovore.fr

Use this key to score the decimal operations test out of 20 points. Each solution shows the work and a scoring guide that explains how points are earned. Give credit for correct reasoning even when a small arithmetic slip changes the final answer.

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

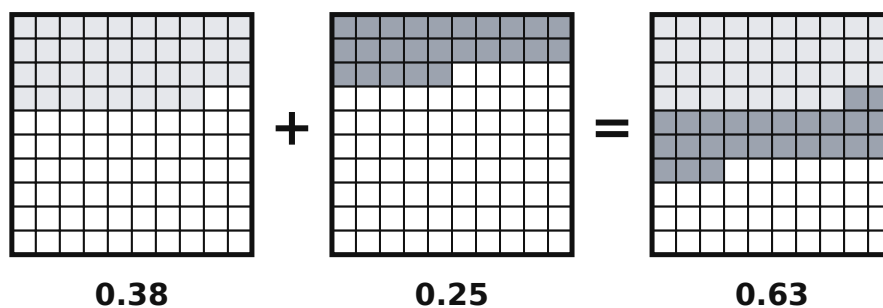
Question 1: Add and subtract (2 points)

- a. $14.76 + 8.90 = 23.66$. **23.66**
- b. $30.20 - 17.85 = 12.35$. **12.35**

Scoring: 1 point for each correct result. Award 0 if the decimal points were not lined up.

Question 2: Hundredths grids (2 points)

- a. The grids show 0.38 and 0.25.
- b. $0.38 + 0.25 = 0.63$. **0.63**



$$38 + 25 = 63 \text{ squares.}$$

Scoring: 1 point for both decimals, 1 point for the sum 0.63.

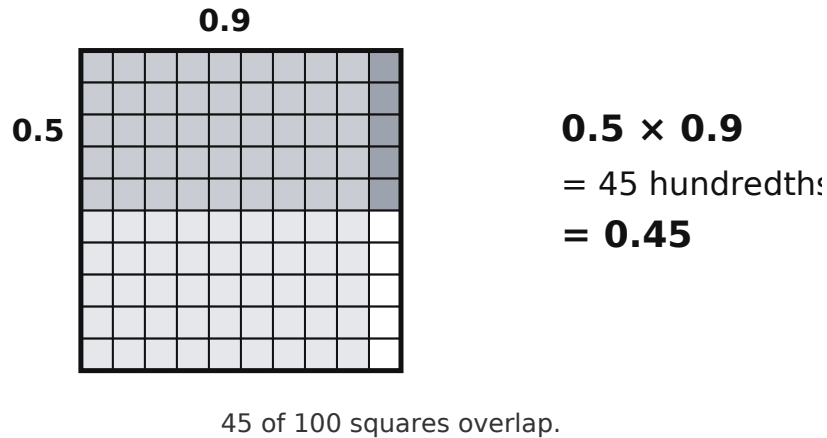
Question 3: Multiply decimals (2 points)

- a. $6 \times 7 = 42$, two decimal places: 0.42. **0.42**
- b. $38 \times 25 = 950$, two decimal places: 9.50. **9.5**

Scoring: 1 point for each product. A correct whole-number product with a misplaced decimal point earns no point.

Question 4: Area model of a product (2 points)

- a. There are 5 rows and 9 columns, so 45 squares overlap: $0.5 \times 0.9 = 0.45$.
b. Multiplying by 0.5, a number less than 1, takes only half of 0.9, so the product 0.45 is smaller than 0.9.



Scoring: 1 point for the correct sentence with the product 0.45; 1 point for an explanation that uses a factor less than 1.

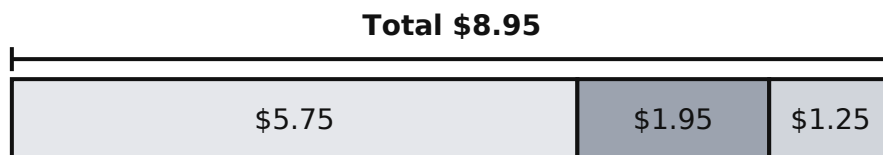
Question 5: Divide decimals (2 points)

- a. $15.6 \div 4 = 3.9$. Check: $4 \times 3.9 = 15.6$. **3.9**
b. $504 \div 12 = 42$. Check: $42 \times 0.12 = 5.04$. **42**

Scoring: 1 point for each quotient.

Question 6: Lunch at the school store (2 points)

- a. $\$5.75 + \$1.95 + \$1.25 = \$8.95$. **\$8.95**
b. $\$10.00 - \$8.95 = \$1.05$. **\$1.05**



Total \$8.95, so the change is \$1.05.

Scoring: 1 point for the total, 1 point for the change (a change computed correctly from a wrong total earns the point).

Question 7: Cheese at the deli (2 points)

- a. $2.4 \times \$6.25 = \$15.00$, since $24 \times 625 = 15000$. **\$15.00**
- b. $\$20.00 - \$15.00 = \$5.00$. **\$5.00**

Scoring: 1 point for the cost, 1 point for the change.

Question 8: Trail repainting (3 points)

- a. $7.2 \div 0.45$
- b. Multiply both numbers by 100: $720 \div 45 = 16$. **16 days**
- c. $9 \times 0.45 = 4.05$. **4.05 miles**

Scoring: 1 point for the expression, 1 point for 16 days, 1 point for 4.05 miles.

Question 9: Student store sales (3 points)

- a. $12 \times \$0.85 = \$10.20$. **\$10.20**
- b. $8 \times \$1.35 = \$10.80$. **\$10.80**
- c. $\$10.20 + \$10.80 = \$21.00$. **\$21.00**

Scoring: 1 point for each part; part (c) may use incorrect earlier results.

Total
20 points