

# Grade 5 - Multiplying and Dividing Decimals - Test Answer Key

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

This answer key shows a worked solution and a scoring guide for each of the 9 test questions. Total points: 20. Award partial credit as described in each guide so that students see where points were earned.

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

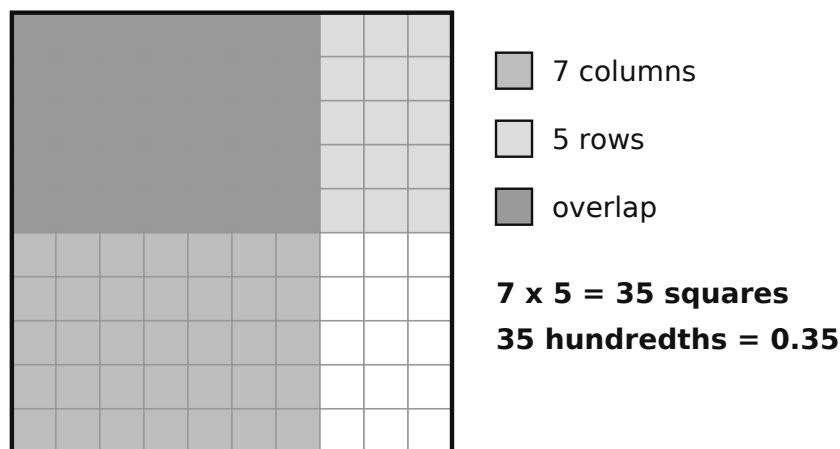
## Question 1 - Multiply decimals [2 pts]

(a)  $6 \times 9 = 54$ ; 2 decimal places: 0.54.

(b)  $42 \times 35 = 1,470$ ; 2 decimal places: 14.70, so 14.7.

*Scoring: 1 point for each correct product.*

## Question 2 - Model of a product [2 pts]



Overlap: 35 squares.

(a)  $0.7 \times 0.5$ .

(b)  $7 \times 5 = 35$  squares, so 0.35.

*Scoring: 1 point for the sentence with 0.7 and 0.5 (either order); 1 point for 0.35.*

### Question 3 - Divide by a whole number [2 pts]

(a)  $84 \div 7 = 12$ , so 1.2.

(b)  $576 \div 8 = 72$ , so 0.72.

*Scoring: 1 point for each correct quotient.*

### Question 4 - Divide by a decimal [2 pts]

(a)  $90 \div 3 = 30$  (multiply both by 10): 30.

(b)  $360 \div 8 = 45$  (multiply both by 100): 45.

*Scoring: 1 point for each correct quotient.*

### Question 5 - Check with an estimate [2 pts]

(a)  $6 \times 0.5 = 3$ , so the product should be close to 3. Since 0.5 is less than 1, the product is less than 6.2, so 31 is too large.

(b)  $62 \times 5 = 310$ ; 2 decimal places gives 3.10: 3.1.

*Scoring: 1 point for a valid estimate near 3 with the explanation; 1 point for 3.1.*

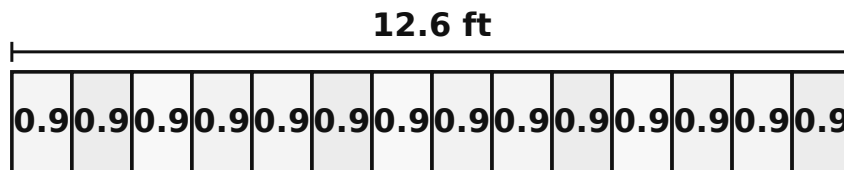
### Question 6 - Price of grapes [2 pts]

$25 \times 32 = 800$ ; 2 decimal places gives 8.00.

**The grapes cost \$8.00.**

*Scoring: 1 point for multiplying 2.5 by 3.20 correctly; 1 point for \$8.00 with the dollar sign.*

### Question 7 - Cutting a board [3 pts]



The board has 14 pieces of 0.9 foot.

(a)  $12.6 \div 0.9 = 126 \div 9 = 14$ : **14 pieces.**

(b)  $14 \times 1.75 = 24.50$ : **\$24.50.**

*Scoring: (a) 1 point for setting up the division  $12.6 / 0.9$ , 1 point for 14. (b) 1 point for \$24.50.*

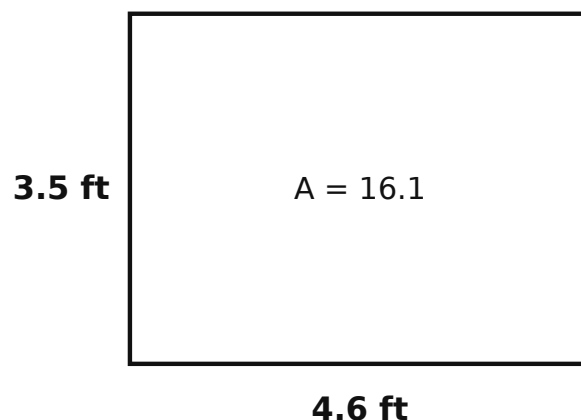
### Question 8 - School store receipt [3 pts]

(a) Notebooks:  $3 \times 2.85 = 8.55$ . Pens:  $2 \times 1.35 = 2.70$ . Total:  $8.55 + 2.70 = 11.25$ : **\$11.25.**

(b)  $20 - 11.25 = 8.75$ : **\$8.75.**

*Scoring: (a) 1 point for finding both costs, 1 point for the total. (b) 1 point for the change.*

### Question 9 - Two rectangles [2 pts]



Area = 16.1 sq ft.

(a)  $46 \times 35 = 1,610$ ; 2 decimal places gives 16.10: **16.1 square feet.**

(b)  $7.14 \div 2.1 = 71.4 \div 21 = 3.4$ : **3.4 feet.**

*Scoring: 1 point for each correct answer with units.*

|                  |
|------------------|
| <b>Total</b>     |
| <b>20 points</b> |