

Multiplying and Dividing Decimals: math practice, Grade 5 – download the PDF

22 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Multiply by 10, 100, and 1,000



Compute without a calculator.

a. 3.7×10

b. 0.46×100

c. $5.2 \times 1,000$

d. $0.008 \times 1,000$

e. 12.35×10

2 Divide by 10, 100, and 1,000



Compute.

a. $45 \div 10$

b. $6.3 \div 100$

c. $820 \div 1,000$

d. $7.5 \div 10$

e. $0.9 \div 10$

3 Find the missing number



Write the missing number in each equation.

a. $2.8 \times \square = 280$

b. $91 \div \square = 0.91$

c. $\square \times 10 = 6.5$

d. $\square \div 1,000 = 0.034$

4 Decimal times a whole number



Compute.

a. 0.4×6

b. 1.3×5

c. 2.5×4

d. 3.2×3

e. 0.07×8

5 Notebooks at the store



A notebook costs \$2.30. Maya buys 4 notebooks. How much does she pay?

6 Divide by a whole number



Compute and check by multiplying.

a. $8.4 \div 4$

b. $9.6 \div 3$

c. $0.72 \div 6$

d. $5.5 \div 5$

e. $3.6 \div 9$

7 Place the decimal point



You know that $24 \times 13 = 312$. Use this fact to place the decimal point.

a. 2.4×1.3

b. 0.24×13

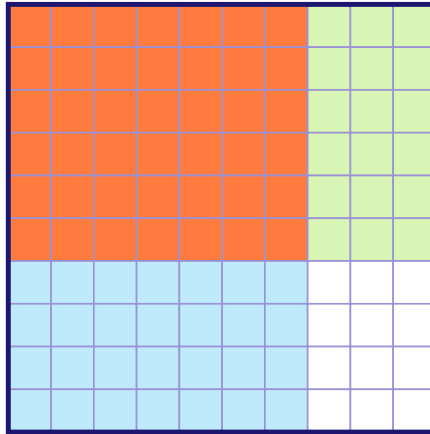
c. 24×0.013

d. 2.4×0.13

8

Read the area model

The orange rectangle in the grid is made of tenths of the big square, which stands for 1 whole.



The big square is 1 whole

- How many columns and how many rows of tenths does the orange rectangle have?
- Write the multiplication it shows and give the product.
- Use a similar model to find 0.5×0.9 .

9

Multiply with more digits

Compute.

- 3.4×6
- 5.25×4
- 0.85×12
- 6.07×5

10 Decimal times decimal



Compute.

- a. 1.5×2.4
- b. 0.8×0.35
- c. 4.2×0.5
- d. 0.06×0.9

11 Estimate to place the point



The digits of 6.8×4.9 are **3332**. Estimate first, then choose the correct product: **3.332**, **33.32**, or **333.2**.

12 Flour for the bakery



A baker uses 0.35 kilogram of flour for each loaf of bread. How much flour does she need for 14 loaves?

13 Divide, then check



Compute.

- a. $15.6 \div 4$
- b. $7.2 \div 8$
- c. $0.45 \div 5$
- d. $14.7 \div 7$
- e. $9 \div 4$

14**Whole number divided by a decimal**

Compute. Hint: ask how many of the small number fit in the big one.

- a. $4 \div 0.5$
- b. $9 \div 0.3$
- c. $6 \div 0.25$
- d. $2 \div 0.1$

15**Inches, centimeters, and miles**

Use 1 inch = 2.54 cm and 1 mile = 1.61 km.

- a. A phone is 5.5 inches tall. How tall is it in centimeters?
- b. A pole is 6 feet tall (72 inches). How tall is it in centimeters?
- c. A trail is 3 miles long. How many kilometers is that?

16**Always, sometimes, never?**

Decide if each statement is true or false. Justify with a calculation.

- a. Multiplying a number by 0.1 gives the same result as dividing it by 10.
- b. 5.2×0.4 is greater than 5.2.
- c. $6 \div 0.5$ is less than 6.
- d. $0.9 \times 0.9 = 0.81$.

17 Find the mistake



Leo wrote $0.3 \times 0.4 = 1.2$.

- Explain his mistake.
- Give the correct product and check it with a 10 by 10 grid.
- Leo also wrote $2.5 \div 0.5 = 1.25$. Is that right? Correct it if needed.

18 Fruit stand



Lena buys 3.5 pounds of apples at \$1.20 per pound and 2 pounds of pears at \$1.75 per pound. She pays with a \$10 bill.

- How much do the apples cost?
- How much do the pears cost?
- How much change does she get?

19 Pouring juice



A party host has 7.2 liters of juice.

- How many cups of 0.3 liter can be filled?
- How many bottles of 0.45 liter can be filled instead?
- Which container needs more refills, and by how many?

20 Drone flight



A drone flies 0.45 kilometer every minute at a steady speed.

- How far does it fly in 12 minutes?
- How many minutes does it need to fly 9 kilometers?

21 Number puzzles



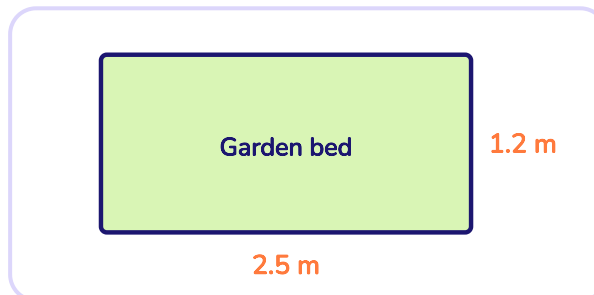
Solve each puzzle.

- a. A number multiplied by 1,000 equals 4,250. What is the number divided by 10?
- b. A number divided by 4 equals 1.35. What is the number?
- c. $\square \times 6 = 4.8$. Find the missing number.

22 Garden bed and soil



A garden bed is a rectangle 2.5 meters long and 1.2 meters wide.



One bag of soil covers 0.5 square meter and costs \$4.25.

- a. Find the area of the garden bed.
- b. How many bags are needed?
- c. What is the total cost?



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