

Grade 6 - Multi-Digit and Decimal Operations - Worksheet

Common Core 6.NS.B.2, 6.NS.B.3 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This **decimal operations worksheet** for 6th Grade covers multi-digit and decimal operations (Common Core 6.NS.B.2, 6.NS.B.3), with a free PDF to print.

These 20 problems practice multi-digit division and the four operations with decimals (Common Core 6.NS.B.2 and 6.NS.B.3). You will use partial quotients, aligned place values, area models, and shifting the decimal point to solve money and measurement problems.

Grade 6 · Common Core State Standards: **6.NS.B.2, 6.NS.B.3**

Decimal operations worksheet: exercises 1 to 10

Exercise 1 - Divide a 4-digit number

Find $4,536 \div 18$.

Exercise 2 - Divide with a zero

Find $7,920 \div 24$.

Exercise 3 - Divide a 5-digit number

Find $12,345 \div 15$.

Exercise 4 - Two-digit divisor

Find $5,208 \div 31$.

Exercise 5 - Add decimals

	Tens	Ones	.	Tenths	Hundredths
		3	.	7	5
	1	2	.	4	0
+		0	.	6	0

Line up the decimal points before adding.

Find $3.75 + 12.4 + 0.6$.

Exercise 6 - Subtract decimals

Find $20 - 7.368$.

Exercise 7 - Multiply decimals

x	4	0.2
6	?	?
0.3	?	?

Break each factor into whole and decimal parts.

Find 6.3×4.2 . Use the area model.

Exercise 8 - Decimal times decimal

Find 0.36×0.25 .

Exercise 9 - Divide by a decimal

Find $7.2 \div 0.9$.

Exercise 10 - Divide by hundredths

Find $18.9 \div 0.07$.

Exercises 11 and up

Exercise 11 - Divide a decimal by a whole number

Find $45.6 \div 12$.

Exercise 12 - Whole number by decimal

Find $9 \div 0.4$.

Exercise 13 - Product with a one

Find 12.5×0.08 .

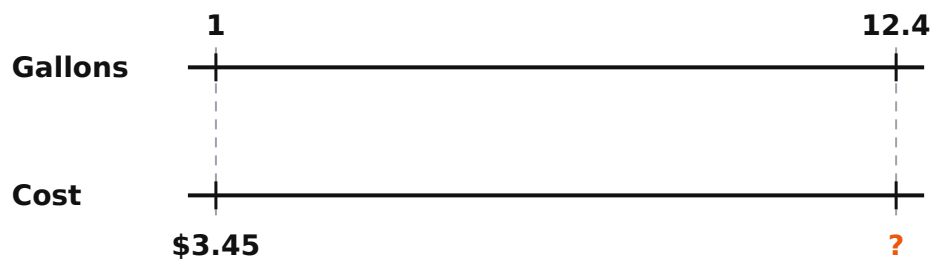
Exercise 14 - School lunch receipt

Item	Qty	Price
Sandwich	3	\$6.75
Juice	2	\$2.40
Cookie	1	\$1.85

Lunch order for a field trip.

Find the total cost of the order.

Exercise 15 - Gas cost



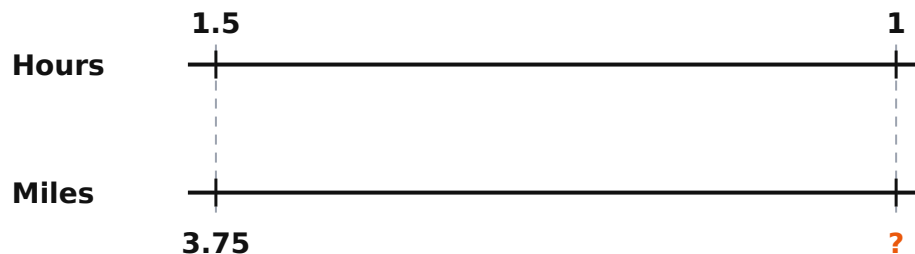
Each gallon costs \$3.45.

Gas costs \$3.45 per gallon. Find the cost of 12.4 gallons.

Exercise 16 - Ribbon pieces

A craft room has a ribbon that is 14.4 meters long. Each piece is 0.6 meter long. Find how many pieces can be cut.

Exercise 17 - Walking speed



A steady walk.

Jamal walks 3.75 miles in 1.5 hours. Find his speed in miles per hour.

Exercise 18 - Cookie boxes

A bakery bakes 1,008 cookies and packs 24 cookies in each box. Each box sells for \$9.60. Find how many boxes it fills and the money from selling them all.

Exercise 19 - Estimate then divide

Estimate $49.6 \div 0.8$ by rounding, then find the exact quotient.

Exercise 20 - Spot the error

Ava says $0.4 \times 0.3 = 1.2$. Explain her mistake and find the correct product.

Key facts behind this decimal operations worksheet

Key facts

- Line up decimal points to add or subtract.
- To multiply decimals, multiply as whole numbers and count the decimal places in both factors.
- To divide by a decimal, multiply the divisor and dividend by the same power of 10.
- Partial quotients subtract friendly multiples of the divisor.
- Estimate first to check the position of the decimal point.

How to use this decimal operations worksheet

Work through the exercises in order: they go from simple to challenging. Write every step on paper, then compare with the solutions page and redo any exercise you missed the next day.