MATH

# Dividing decimals by whole numbers



Name _____ Date _____

🎯 **I can divide a decimal by a whole number.**

## 1 How it works 💡

Divide as you would with whole numbers. Put the decimal point in the answer straight above the decimal point in the number you are dividing, before you start. 7.5 ÷ 3: 3 goes into 7 twice, then into 15 five times, so the answer is 2.5.

$$3 \overline{)\,7.5}\;\;2.5$$

point straight up

## 2 Divide ✏️ Think of the multiplication fact.

1. 1.2 ÷ 4 = ☐
2. 8.8 ÷ 8 = ☐
3. 1.68 ÷ 6 = ☐
4. 0.03 ÷ 3 = ☐
5. 4.5 ÷ 5 = ☐
6. 0.7 ÷ 7 = ☐
7. 2.7 ÷ 9 = ☐
8. 12.9 ÷ 3 = ☐
9. 0.14 ÷ 2 = ☐

**How did I do?** ☆ ☆ ☆

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# Long division with decimals

Name _____ Date _____

I can divide a decimal by a whole number.

## 1 Divide. Show your work.

Put the point straight up first. The dot shows where.

1. $3\overline{)22.98}$

2. $6\overline{)19.44}$

3. $3\overline{)3.63}$

4. $3\overline{)12.72}$

5. $8\overline{)79.44}$

6. $5\overline{)45.75}$

## 2 Share the money equally

1. $16.70 ÷ 2 = ☐

2. $27.40 ÷ 4 = ☐

3. $54.90 ÷ 6 = ☐

4. $51.90 ÷ 6 = ☐

How did I do? ☆ ☆ ☆

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# Missing numbers and estimating

Name _____ Date _____

I can check division with multiplication.

## 1 Find the missing number

Use multiplication to check.

1. ☐ ÷ 6 = 2.4
2. 40.8 ÷ ☐ = 6.8
3. ☐ ÷ 5 = 8.3
4. 79.2 ÷ ☐ = 9.9
5. ☐ ÷ 5 = 5.7
6. 25.2 ÷ ☐ = 8.4

## 2 Estimate first, then circle the answer

Round the decimal to a whole number.

1. 11.7 ÷ 3 = (0.39) (3.9) (39)
2. 11.2 ÷ 8 = (1.4) (14) (0.14)
3. 65.1 ÷ 7 = (93) (0.93) (9.3)
4. 12.3 ÷ 3 = (0.41) (4.1) (41)

## 3 Think about it

1. Is 9.6 ÷ 3 more or less than 3?
2. How can you check 7.5 ÷ 5 = 1.5?
3. What is 0.8 ÷ 4?
4. Share $5.00 equally among 4 people. How much does each get?

**How did I do?** ☆ ☆ ☆

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# Word problems

Name _____ Date _____

I can use decimals to solve problems.

## 1 Read, think, answer

Show your thinking in the box.

**1** Zara and 3 friends share $10.60 equally. How much does each of the 4 get?

Answer: _____

**2** A 7.5 meter ribbon is cut into 3 equal pieces. How long is each piece?

Answer: _____

**3** Ali paid $8.75 for 5 notebooks. They all cost the same. How much is one notebook?

Answer: _____

**4** A 2.4 liter jug of water fills 6 glasses equally. How much water is in each glass?

Answer: _____

**How did I do?** ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

# Answer key: dividing decimals by whole numbers

## 1 Page 1

Quotients: 1) 0.3; 2) 1.1; 3) 0.28; 4) 0.01; 5) 0.9; 6) 0.1; 7) 0.3; 8) 4.3; 9) 0.07.

## 2 Page 2

Long division: 1) 7.66; 2) 3.24; 3) 1.21; 4) 4.24; 5) 9.93; 6) 9.15.
Money: 1) $8.35; 2) $6.85; 3) $9.15; 4) $8.65.

## 3 Page 3

Missing numbers: 1) 14.4; 2) 6; 3) 41.5; 4) 8; 5) 28.5; 6) 3.
Estimate: 1) 3.9; 2) 1.4; 3) 9.3; 4) 4.1.
Think: 1) More. It is 3.2; 2) Multiply: 1.5 × 5 = 7.5; 3) 0.2; 4) $1.25.

## 4 Page 4: word problems

1) 10.60 ÷ 4 = $2.65
2) 7.5 ÷ 3 = 2.5 meters
3) 8.75 ÷ 5 = $1.75
4) 2.4 ÷ 6 = 0.4 liter

## 5 Teaching tip 💡

Practice with money first. Sharing $7.50 between 3 children is something every child can picture, and the answer of $2.50 shows why the point lines up.

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