MATH

Dividing by decimals

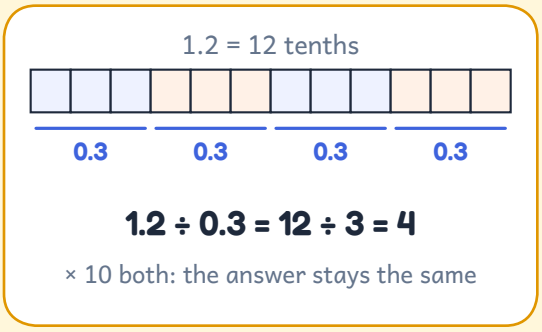


Name _____ Date _____

🎯 **I can divide by a decimal.**

1 How it works 💡

Dividing asks how many fit. 1.2 ÷ 0.3 asks how many 0.3s are in 1.2. Make the divisor a whole number: multiply both numbers by 10 to get 12 ÷ 3 = 4. The answer does not change, because both numbers grew by the same amount.



2 Make the divisor whole, then divide ✏️

Multiply both numbers by 10 or 100.

1. **1.2 ÷ 0.3 = ☐ ÷ ☐ = ☐**
2. **3.5 ÷ 0.5 = ☐ ÷ ☐ = ☐**
3. **0.63 ÷ 0.07 = ☐ ÷ ☐ = ☐**
4. **0.9 ÷ 0.03 = ☐ ÷ ☐ = ☐**
5. **0.68 ÷ 0.04 = ☐ ÷ ☐ = ☐**
6. **1.12 ÷ 0.04 = ☐ ÷ ☐ = ☐**

How did I do? ☆ ☆ ☆

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MATH · DIVIDING BY DECIMALS

Divide by a decimal

Name _____ Date _____

I can divide by a decimal.

1 Divide

Make the divisor a whole number first.

1. $12 \div 0.5 =$ ☐
2. $27 \div 0.9 =$ ☐
3. $12 \div 0.4 =$ ☐
4. $9 \div 0.5 =$ ☐
5. $0.35 \div 0.07 =$ ☐
6. $9.6 \div 4.8 =$ ☐
7. $0.08 \div 0.04 =$ ☐
8. $9.6 \div 3.2 =$ ☐
9. $14.5 \div 2.9 =$ ☐
10. $0.2 \div 0.04 =$ ☐
11. $0.15 \div 0.03 =$ ☐
12. $29.4 \div 4.9 =$ ☐

2 Multiply or divide?

Check the sign first!

1. $23.4 \div 3.9 =$ ☐
2. $9.9 \times 0.7 =$ ☐
3. $0.8 \div 0.4 =$ ☐
4. $3.6 \times 0.7 =$ ☐
5. $1.5 \times 0.2 =$ ☐
6. $3.6 \div 1.8 =$ ☐

How did I do? ☆ ☆ ☆

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Missing numbers and more or less

Name _____ Date _____

I can tell if dividing makes a number bigger or smaller.

1 Find the missing number

Use multiplication to check.

1. ☐ ÷ 0.4 = 5
2. 3.5 ÷ ☐ = 5
3. ☐ ÷ 0.07 = 8
4. 1.6 ÷ ☐ = 8
5. ☐ ÷ 0.03 = 6
6. 0.12 ÷ ☐ = 3

2 More or less than the first number?

Is the divisor less than 1?

1. 2.8 ÷ 0.7 — more / less
2. 15.5 ÷ 3.1 — more / less
3. 9.4 ÷ 4.7 — more / less
4. 1.69 ÷ 1.3 — more / less
5. 2.7 ÷ 0.9 — more / less
6. 0.76 ÷ 0.2 — more / less

3 Think about it

1. How many 0.5s are in 3?
2. Why can you multiply both numbers by 10?
3. What is 1 ÷ 0.25?

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 Leo has $6. Stickers cost $0.75 each. How many stickers can Leo buy?

Answer: _____

2 A board is 4.5 meters long. It is cut into pieces that are each 0.5 meter long. How many pieces are there?

Answer: _____

3 A bottle holds 1.2 liters. Each cup holds 0.3 liter. How many cups can the bottle fill?

Answer: _____

4 One lap of the track is 0.6 km. How many laps must Hana walk to walk 4.2 km?

Answer: _____

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: dividing by decimals

1 Page 1

1) 1.2 ÷ 0.3 = 12 ÷ 3 = 4
2) 3.5 ÷ 0.5 = 35 ÷ 5 = 7
3) 0.63 ÷ 0.07 = 63 ÷ 7 = 9
4) 0.9 ÷ 0.03 = 90 ÷ 3 = 30
5) 0.68 ÷ 0.04 = 68 ÷ 4 = 17
6) 1.12 ÷ 0.04 = 112 ÷ 4 = 28

2 Page 2

Divide: 1) 24; 2) 30; 3) 30; 4) 18; 5) 5; 6) 2; 7) 2; 8) 3; 9) 5; 10) 5; 11) 5; 12) 6.
Multiply or divide: 1) 6; 2) 6.93; 3) 2; 4) 2.52; 5) 0.3; 6) 2.

3 Page 3

Missing numbers: 1) 2; 2) 0.7; 3) 0.56; 4) 0.2; 5) 0.18; 6) 0.04.
More or less: 1) more (4); 2) less (5); 3) less (2); 4) less (1.3); 5) more (3); 6) more (3.8).
Think: 1) 6; 2) It makes the divisor a whole number, and the answer stays the same; 3) 4.

4 Page 4: word problems

1) 6 ÷ 0.75 = 8 stickers
2) 4.5 ÷ 0.5 = 9 pieces
3) 1.2 ÷ 0.3 = 4 cups
4) 4.2 ÷ 0.6 = 7 laps

5 Teaching tip 💡

Show it with money: how many 25 cent stickers can you buy with $3? Children know it is 12, and 3 ÷ 0.25 = 300 ÷ 25 = 12 shows the same thing.

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