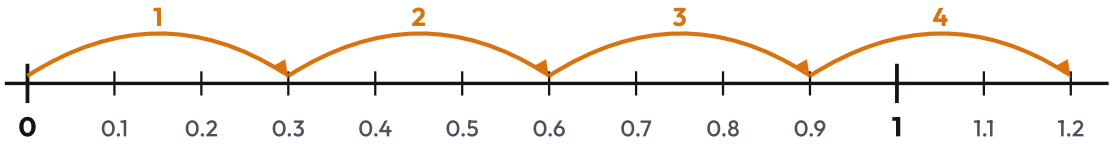
Name _____ Date _____

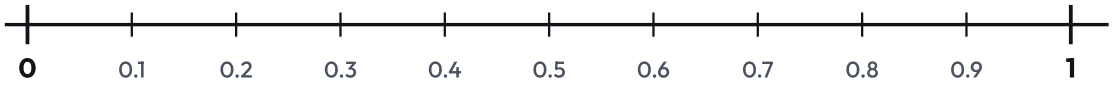
Dividing by a Decimal

Example

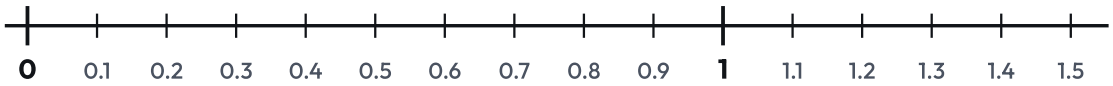


$1.2 \div 0.3$ asks **how many times 0.3 fits into 1.2**. Jump by 0.3 from 0 to 1.2: four jumps. So $1.2 \div 0.3 = 4$, because $4 \times 0.3 = 1.2$.

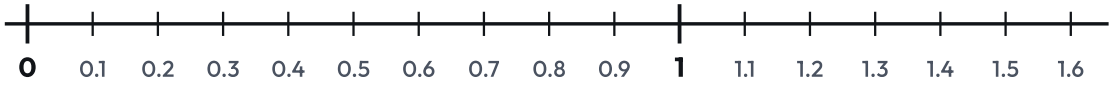
1 ON YOUR OWN Draw the jumps and work it out.



$1 \div 0.2 =$ ☐



$1.5 \div 0.5 =$ ☐



$1.6 \div 0.4 =$ ☐

2 ON YOUR OWN How many times does it fit? Check by multiplying.

$3 \div 0.5 =$ ☐ ☐ $\times 0.5 = 3$

$2 \div 0.25 =$ ☐ ☐ $\times 0.25 = 2$

$1.2 \div 0.4 =$ ☐ ☐ $\times 0.4 = 1.2$

$0.9 \div 0.03 =$ ☐ ☐ $\times 0.03 = 0.9$

Names (pair) _____ Date _____

Remember

If we multiply both numbers by the same number, the answer does not change:
$1.2 \div 0.3 = 12 \div 3 = 4$. Multiply by 10, 100 or 1000 until the divisor is a whole number.

3 ON YOUR OWN Move the point in both numbers and work it out.

$4.5 \div 0.9 = 45 \div 9 = \square$

$0.36 \div 0.04 = 36 \div \square = \square$

$2.4 \div 0.06 = 240 \div \square = \square$

$7.2 \div 0.8 = \square \div \square = \square$

4 IN PAIRS Without calculating, write <, > or =. When is the answer greater than 6?

$6 \div 0.5 \bigcirc 6$ $6 \div 2 \bigcirc 6$ $6 \div 1 \bigcirc 6$ $6 \div 0.1 \bigcirc 6$

5 IN PAIRS Who is right? Explain.

Luke: Dividing always gives a smaller number. **true** / **false**

Why? _____

Emma: $2.4 \div 0.6 = 0.4$. **true** / **false**

Why? _____

6 ON YOUR OWN A bottle holds 1.5 L of juice. How many 0.25 L glasses can we fill?

The Decimal Zoom app · otooly.com/decimal-zoom

Zoom into the line between 0 and 2 and count how many times the divisor fits.

★ ON YOUR OWN **Exit card.** Work out $3.6 \div 0.4$. Is the answer greater or smaller than 3.6?