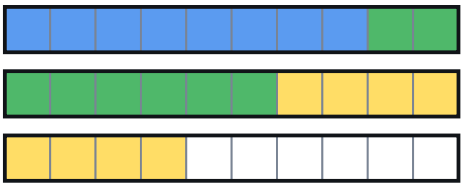
Name _____ Date _____

Dividing a Decimal by a Whole Number

Example



2.4 is 24 tenths. Share them into 3 equal parts (three colours): each part has 8 tenths.

$2.4 \div 3 = 0.8$

1 ON YOUR OWN Write in tenths or hundredths and divide.

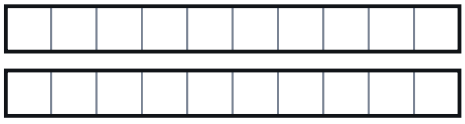
$0.6 \div 3 = 6$ tenths $\div 3 =$ ☐ tenths $=$ ☐

$1.5 \div 5 = 15$ tenths $\div 5 =$ ☐ tenths $=$ ☐

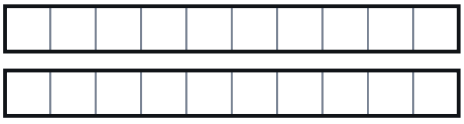
$0.24 \div 4 = 24$ hundredths $\div 4 =$ ☐ hundredths $=$ ☐

$3.6 \div 4 = 36$ tenths $\div 4 =$ ☐ tenths $=$ ☐

2 ON YOUR OWN Colour the strips in equal parts, each part a different colour, and divide.



$1.6 \div 2 =$ ☐



$1.2 \div 4 =$ ☐

3 ON YOUR OWN Three friends share €4.50 equally. How much does each get? Two brothers share €7.30.

4 ON YOUR OWN A 5 m rope is cut into 4 equal pieces. How long is each piece?

Names (pair) _____ Date _____

Example

$$3\overline{)7.^{1}3^{1}5}\quad 2.45$$

Divide as with whole numbers. The remainder 1 one is 10 tenths, so we divide 13 tenths. **When we pass the point in the number we divide, we write the point in the answer.**

Remember

The point in the answer goes above the point in the number we divide. If there is a remainder, add a zero and carry on: $3 \div 4 = 3.00 \div 4 = 0.75$.

5 ON YOUR OWN First estimate, then work it out.

$8.4 \div 4$ estimate: ☐ answer: ☐

$9.15 \div 5$ estimate: ☐ answer: ☐

$3 \div 4$ estimate: ☐ answer: ☐

6 IN PAIRS Who is right? Explain.

Ana: $0.8 \div 4 = 2$. **true** / **false**

Why? _____

Tom: $1.2 \div 4 = 0.3$. **true** / **false**

Why? _____

Ivo: $9 \div 4 = 2.1$, **because the remainder is** 1. **true** / **false**

Why? _____

The Decimal Grid app · otooly.com/decimal-grid

In **Show** mode type the number you divide, e.g. 2.4, and split the coloured columns into equal parts.

★ ON YOUR OWN **Exit card.** Work out $9.6 \div 4$. Estimate first.

_____