

Day 3 Starter

Year 6 | Week 7 | Day 4

XXII

1) Complete the number sentence.

$$48 \times 15 = 48 \times ? + 48 \times 5$$

2) Is 9 a prime number?

3) Write down the factors of 15

4) How many minutes are there in 2.5 hours?

Day 3 Starter

Year 6 | Week 7 | Day 4

XXII

1) Complete the number sentence.

$$48 \times 15 = 48 \times ? + 48 \times 5 \quad 10$$

2) Is 9 a prime number? **No**

3) Write down the factors of 15 **1, 3, 5, 15**

4) How many minutes are there in 2.5 hours? **150 minutes**

Fractions

$$\frac{3}{4}$$

Divide
numerator by
denominator

Decimals

0.75

Converting a **FRACTION** to **DECIMAL** is easy!

Divide your **NUMERATOR** by your **DENOMINATOR**
→ that's it: done! 😊

$$3 \div 4 = 0.75$$

Just remember → **DENOMINATOR** goes **OUTSIDE!**

$$\frac{3}{4} = 4 \overline{) 3.00}$$
$$\frac{0.75}{4 \overline{) 0.75}}$$

1 Fractions can be expressed as divisions.

For example, $\frac{1}{2} = 1 \div 2$

Write the fractions as divisions.

a) $\frac{1}{3} = \square \div \square$

d) $\frac{\square}{\square} = 3 \div 5$

b) $\frac{2}{3} = \square \div \square$

e) $\frac{\square}{7} = 3 \div \square$

c) $\frac{4}{7} = \square \div \square$

f) $\frac{1}{10} = \square \div \square$

2 Use place value counters to find the decimal equivalent of $\frac{2}{5}$

$\frac{2}{5} = 2 \div 5 = \square$



3 Fractions can be converted to decimals by using the short division method.

For example, $\frac{1}{8} = 1 \div 8$

	0	·	1	2	5
8	1	·	0	2	0

$\frac{1}{8} = 0.125$

Use the short division method to find the decimal equivalent of the fractions.

a) $\frac{1}{4}$

b) $\frac{4}{5}$

c) $\frac{3}{8}$

4 Find the decimal equivalents for these fractions.

a) $\frac{7}{8}$

b) $\frac{7}{5}$

c) $\frac{1}{16}$

d) $\frac{9}{16}$

5



To find $\frac{19}{20}$ as a decimal,
I found $\frac{1}{20}$ as a decimal, then
took it away from 1

Here is Dora's working out.

			0	·	0	5
	2	0	1	·	0	10

$1 - 0.05 = 0.95$

$\frac{19}{20} = 0.95$

Try Q5 if you feel confident, it is quite a tricky one!

Use Dora's method to find the decimal equivalent for $\frac{49}{50}$



1 Fractions can be expressed as divisions.

For example, $\frac{1}{2} = 1 \div 2$

Write the fractions as divisions.

a) $\frac{1}{3} = \boxed{1} \div \boxed{3}$

d) $\frac{3}{5} = 3 \div \boxed{5}$

b) $\frac{2}{3} = \boxed{2} \div \boxed{3}$

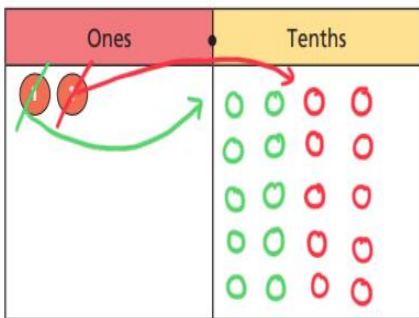
e) $\frac{3}{7} = 3 \div \boxed{7}$

c) $\frac{4}{7} = \boxed{4} \div \boxed{7}$

f) $\frac{1}{10} = \boxed{1} \div \boxed{10}$

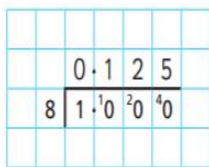
2 Use place value counters to find the decimal equivalent of $\frac{2}{5}$.
You can draw on the place value chart to help you with exchanging.

$\frac{2}{5} = 2 \div 5 = \boxed{0.4}$



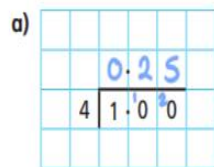
3 Fractions can be converted to decimals by using the short division method.

For example, $\frac{1}{8} = 1 \div 8$

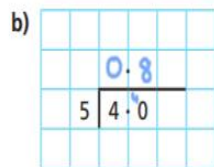


$\frac{1}{8} = 0.125$

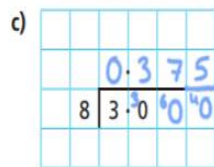
Use the short division method to find the decimal equivalent of the fractions.



$\frac{3}{4} = \boxed{0.75}$



$\frac{4}{5} = \boxed{0.8}$



$\frac{3}{8} = \boxed{0.375}$

4 Find the decimal equivalents for these fractions.

a) $\frac{7}{8} = \boxed{0.875}$

c) $\frac{1}{16} = \boxed{0.0625}$

b) $\frac{7}{5} = \boxed{1.4}$

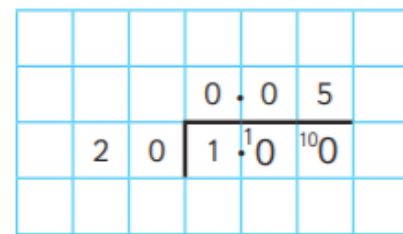
d) $\frac{9}{16} = \boxed{0.5625}$

5



To find $\frac{19}{20}$ as a decimal, I found $\frac{1}{20}$ as a decimal, then took it away from 1

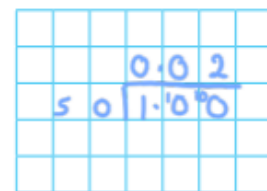
Here is Dora's working out.



$1 - 0.05 = 0.95$

$\frac{19}{20} = 0.95$

Use Dora's method to find the decimal equivalent for $\frac{49}{50}$



$1 - 0.02 = 0.98$

$\frac{49}{50} = \boxed{0.98}$

Convert these fractions into decimals:

$$1) \frac{1}{5} =$$

$$2) \frac{3}{12} =$$

$$3) \frac{3}{8} =$$

$$4) \frac{4}{5} =$$

$$5) \frac{7}{4} =$$

$$6) \frac{7}{16} =$$

$$7) \frac{1}{6} =$$

$$8) \frac{11}{2} =$$

$$9) \frac{18}{8} =$$

$$10) \frac{6}{15} =$$

$$11) \frac{7}{3} =$$

$$12) \frac{6}{20} =$$

$$13) \frac{9}{15} =$$

$$14) \frac{16}{6} =$$

$$15) \frac{7}{9} =$$

$$16) \frac{9}{5} =$$



$$1) \frac{1}{5} = 0.2 \quad 2) \frac{3}{12} = 0.25 \quad 3) \frac{3}{8} = 0.375 \quad 4) \frac{4}{5} = 0.8$$

$$5) \frac{7}{4} = 1.75 \quad 6) \frac{7}{16} = 0.4375 \quad 7) \frac{1}{6} = 0.1\dot{6} \quad 8) \frac{11}{2} = 5.5$$

$$9) \frac{18}{8} = 2.25 \quad 10) \frac{6}{15} = 0.4 \quad 11) \frac{7}{3} = 2.3\dot{3} \quad 12) \frac{6}{20} = 0.3$$

$$13) \frac{9}{15} = 0.6 \quad 14) \frac{16}{6} = 2.6\dot{6} \quad 15) \frac{7}{9} = 0.7\dot{7} \quad 16) \frac{9}{5} = 1.8$$

Please note for questions 7, 11, 14 and 15 there is a dot above the last digit. This means that the decimal repeats the last digit with the dot above an infinite number of times!