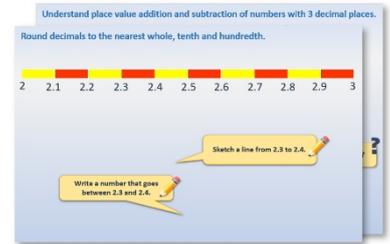


Year 4: Week 5, Day 1

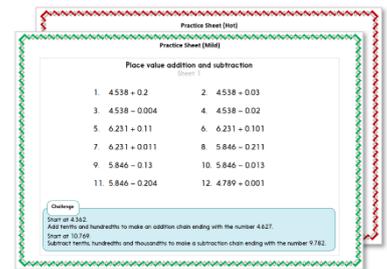
Equivalent fractions and decimals

Each day covers one maths topic. It should take you about 1 hour or just a little more.

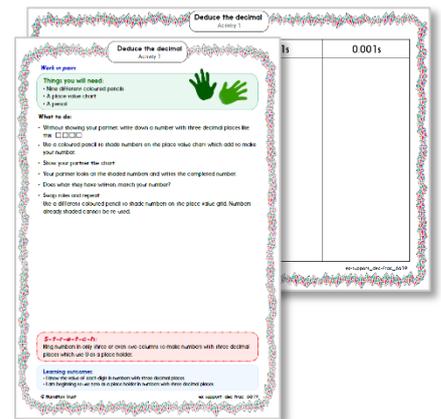
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



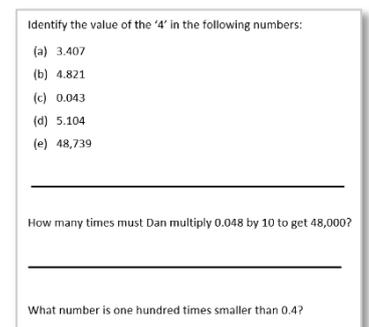
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!



Learning Reminders

Relate fractions to decimals ($0.1 = \frac{1}{10}$, $0.2 = \frac{1}{5}$).



What fraction on the counting stick is the arrow pointing to?
What other ways can you write or say that?

$\frac{2}{10}$ as a fraction or $\frac{1}{5}$ in its simplest form.

Or **0.2** as a decimal.

$$0.2 \equiv \frac{1}{5} \equiv \frac{2}{10}$$

They are each **equivalent**, different ways of saying the same amount!

Learning Reminders

Relate fractions to decimals ($0.1 = \frac{1}{10}$, $0.2 = \frac{1}{5}$).



$\frac{8}{10}$ as a fraction or $\frac{4}{5}$ in its simplest form.

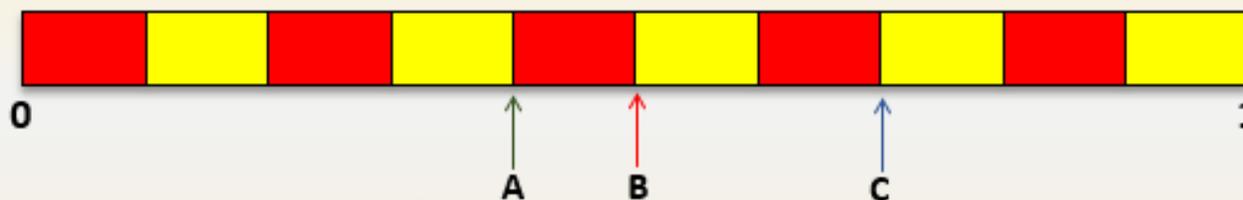
Or **0.8** as a decimal.

What fraction on the counting stick is the arrow pointing to?
What other ways can you write or say that?

$$0.8 \equiv \frac{4}{5} \equiv \frac{8}{10}$$

Learning Reminders

Relate fractions to decimals ($0.1 = \frac{1}{10}$, $0.2 = \frac{1}{5}$).



Now try these points.
Let's write the different
ways they can be
written.

A. $0.4 \equiv \frac{2}{5} \equiv \frac{4}{10}$

B. $0.5 \equiv \frac{5}{10} \equiv \frac{1}{2}$

C. $0.7 \equiv \frac{7}{10}$

Practice Sheet Mild

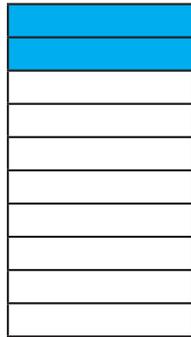
Decimals and fractions practice

Fill in the missing fractions and decimals and provide any equivalents.



$$0.1 \equiv \boxed{}$$

e.g.
 $0.1 + \boxed{} = 1$

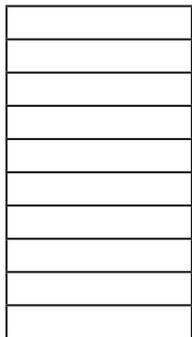


Hint: It's in the 'equivalent' symbol!

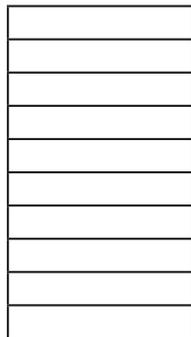
$$0.2 \equiv \boxed{} \equiv \boxed{}$$



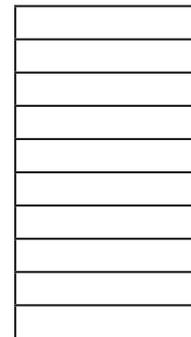
$$\boxed{} \equiv \boxed{}$$



$$\boxed{} \equiv \frac{4}{10} \equiv \boxed{}$$



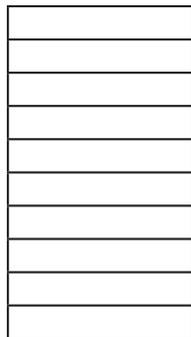
$$0.5 \equiv \boxed{} \equiv \boxed{}$$



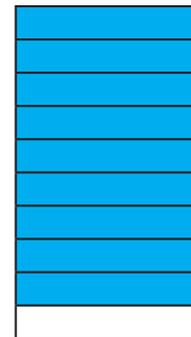
$$\boxed{} \equiv \boxed{} \equiv \frac{3}{5}$$



$$0.7 \equiv \boxed{}$$



$$\boxed{} \equiv \frac{8}{10} \equiv \boxed{}$$



$$\boxed{} \equiv \boxed{}$$

Practice Sheet Hot Tents

1. $0.1 = \frac{1}{10}$

4. $0.9 = \frac{9}{\square}$

7. $0.4 = \frac{\square}{10} = \frac{\square}{5}$

2. $0.2 = \frac{2}{10} = \frac{\square}{5}$

5. $0.\square = \frac{3}{10}$

8. $0.\square = \frac{7}{10}$

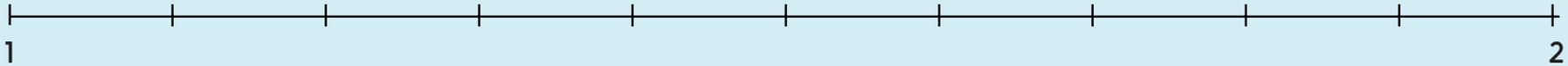
3. $0.5 = \frac{5}{10} = \frac{1}{\square}$

6. $0.\square = \frac{6}{10} = \frac{\square}{5}$

9. $0.\square = \frac{\square}{10} = \frac{4}{5}$

Challenge

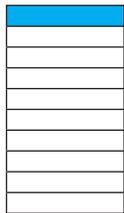
Here is a 1 to 2 number line:



Label the divisions on the line with as many equivalent fractions and decimals as you can.

Practice Sheet Answers

Decimals and fractions practice (Mild)



$$0.1 \equiv \frac{1}{10}$$

$$0.1 + 0.9 = 1$$



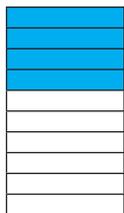
$$0.2 \equiv \frac{2}{10} \equiv \frac{1}{5}$$

$$0.2 + 0.8 = 1$$



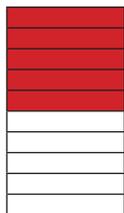
$$0.3 \equiv \frac{3}{10}$$

$$0.3 + 0.7 = 1$$



$$0.4 \equiv \frac{4}{10} \equiv \frac{2}{5}$$

$$0.4 + 0.6 = 1$$



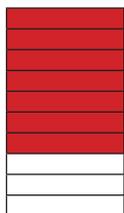
$$0.5 \equiv \frac{5}{10} \equiv \frac{1}{2}$$

$$0.5 + 0.5 = 1$$



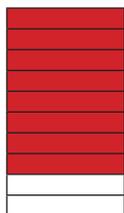
$$0.6 \equiv \frac{6}{10} \equiv \frac{3}{5}$$

$$0.6 + 0.4 = 1$$



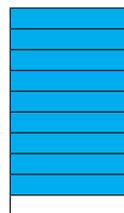
$$0.7 \equiv \frac{7}{10}$$

$$0.7 + 0.3 = 1$$



$$0.8 \equiv \frac{8}{10} \equiv \frac{4}{5}$$

$$0.8 + 0.2 = 1$$



$$0.9 \equiv \frac{9}{10}$$

$$0.9 + 0.1 = 1$$

Decimals and fractions practice (Hot)

1. $0.1 = \frac{1}{10}$

4. $0.9 = \frac{9}{10}$

7. $0.4 = \frac{4}{10} = \frac{2}{5}$

2. $0.2 = \frac{2}{10} = \frac{1}{5}$

5. $0.3 = \frac{3}{10}$

8. $0.7 = \frac{7}{10}$

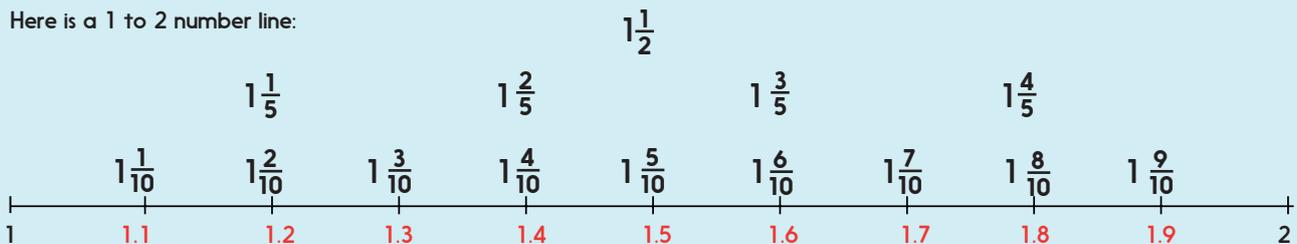
3. $0.5 = \frac{5}{10} = \frac{1}{2}$

6. $0.6 = \frac{6}{10} = \frac{3}{5}$

9. $0.8 = \frac{8}{10} = \frac{4}{5}$

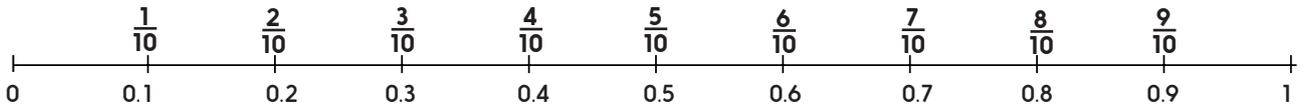
Challenge

Here is a 1 to 2 number line:



Label the divisions on the line with as many equivalent fractions and decimals as you can.

A Bit Stuck? Tenths



What to do:

- Colour the correct number of tenths of each strip.
Sometimes the tenths are written as fractions and sometimes as decimals.
Use the line above to help you.

--	--	--	--	--	--	--	--	--	--

$\frac{3}{10}$

--	--	--	--	--	--	--	--	--	--

0.1

--	--	--	--	--	--	--	--	--	--

$\frac{7}{10}$

--	--	--	--	--	--	--	--	--	--

0.4

--	--	--	--	--	--	--	--	--	--

0.5

--	--	--	--	--	--	--	--	--	--

$\frac{9}{10}$

--	--	--	--	--	--	--	--	--	--

0.2

--	--	--	--	--	--	--	--	--	--

0.6

--	--	--	--	--	--	--	--	--	--

0.8

Check your understanding: Questions

Write each number as a decimal:

- (i) One and four tenths
- (ii) $\frac{6}{10}$
- (iii) $10\frac{2}{10}$ (ten and two tenths)
- (iv) One half
- (v) One fifth

Choose another decimal to write in at least three different ways.

Fold here to hide answers:

Check your understanding: Answers

Write each number as a decimal:

- (i) One and four tenths **1.4**
- (ii) $\frac{6}{10}$ **0.6**
- (iii) $10\frac{2}{10}$ (ten and two tenths) **10.2**
- (iv) One half **0.5**
- (v) One fifth **0.2**

Check on a fraction/decimal number line.

Choose another decimal to write in at least three different ways.

e.g. $0.4 = \frac{4}{10} = \frac{2}{5}$.