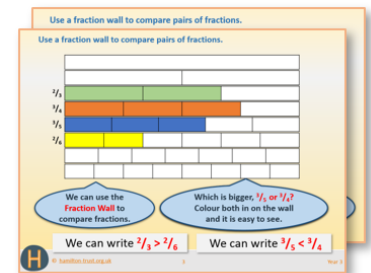


Year 4: Week 3, Day 2

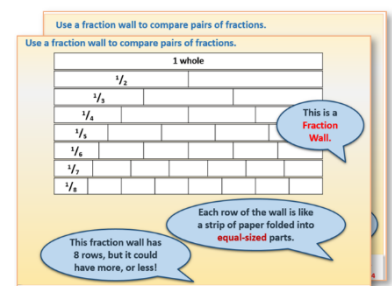
Equivalent fractions (tenths)

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

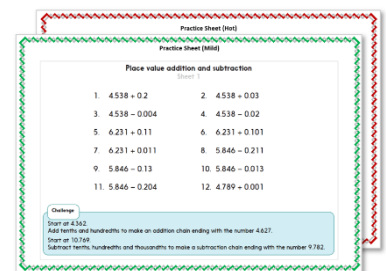
- If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.
Print a copy of the Fraction Wall resource sheet to use while you watch (see next page).



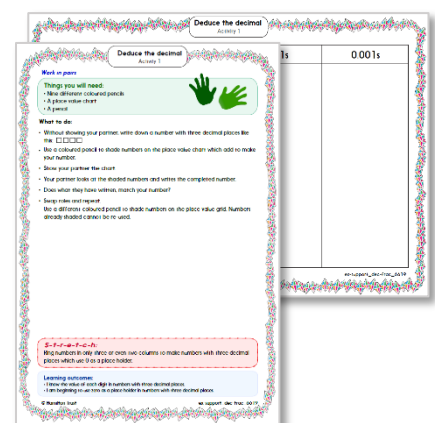
OR start by carefully reading through the **Learning Reminders**.
They come from our *PowerPoint* slides.



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



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



Learning Reminders

Identify equivalent fractions equivalent to tenths.

$\frac{1}{10}$ s



$\frac{1}{5}$ s



$\frac{1}{2}$ s



Find pairs of equivalent fractions on these fraction strips.



For each pair which is the **simplest form**?

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

$$\frac{4}{10} = \frac{2}{5}$$


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

$$\frac{8}{10} = \frac{4}{5}$$

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


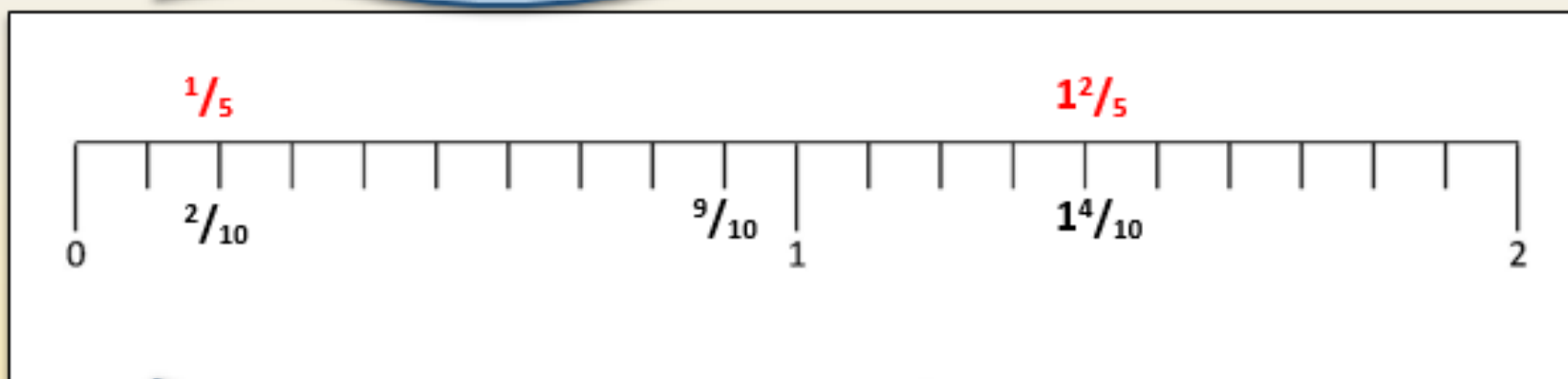
Learning Reminders

Identify equivalent fractions and mark them on a number line.




The number line is divided into tenths so where does $\frac{1}{5}$ go?

It is equivalent to $\frac{2}{10}$.



Where does $\frac{9}{10}$ go?
Can it be simplified?



What about $\frac{14}{10}$?
Can it be simplified?

Practice questions for everyone Sheet 1

Fractions

Draw a circle round all the fractions which are equivalent to $\frac{1}{2}$.

Draw a square round all the fractions which are equivalent to $\frac{1}{4}$.

$$\frac{2}{4}$$

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

$$\frac{6}{12}$$

$$\frac{5}{20}$$

$$\frac{20}{40}$$

$$\frac{2}{8}$$

$$\frac{4}{10}$$

$$\frac{3}{12}$$

$$\frac{2}{6}$$

$$\frac{8}{12}$$

$$\frac{2}{5}$$

$$\frac{3}{6}$$

$$\frac{4}{8}$$

$$\frac{10}{40}$$

$$\frac{9}{18}$$

$$\frac{8}{16}$$

$$\frac{10}{20}$$

$$\frac{5}{10}$$

$$\frac{2}{3}$$

$$\frac{4}{16}$$

Challenge

Write at least two more fractions equivalent to $\frac{1}{2}$ and two more equivalent to $\frac{1}{4}$.

Practice questions for everyone Sheet 2

Fractions

Complete the missing numerators.

1. $\frac{1}{2} = \frac{\quad}{10}$

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

3. $\frac{\quad}{5} = \frac{8}{10}$

4. $\frac{\quad}{10} = \frac{2}{5}$

5. $\frac{6}{10} = \frac{\quad}{5}$

6. $\frac{1}{10} = \frac{\quad}{20}$

7. $\frac{12}{20} = \frac{\quad}{10}$

8. $\frac{3}{10} = \frac{\quad}{20}$

Write these fractions in order, smallest first.

1. $\frac{1}{2}$ $\frac{7}{10}$ $\frac{1}{10}$

3. $\frac{1}{5}$ $\frac{1}{10}$ $\frac{3}{10}$

2. $\frac{2}{10}$ $\frac{2}{5}$ $\frac{3}{10}$

4. $\frac{3}{10}$ $\frac{4}{5}$ $\frac{7}{10}$

Challenge

Write as many fractions between $\frac{1}{5}$ and $\frac{1}{2}$ as you can.

Practice Answers Sheet 1

$$\frac{2}{4} \quad \frac{3}{4} \quad \frac{6}{12} \quad \frac{5}{20}$$

$$\frac{20}{40} \quad \frac{2}{8} \quad \frac{4}{10} \quad \frac{3}{12}$$

$$\frac{2}{6} \quad \frac{8}{12} \quad \frac{2}{5} \quad \frac{3}{6}$$

$$\frac{4}{8} \quad \frac{10}{40} \quad \frac{9}{18}$$

$$\frac{8}{16} \quad \frac{10}{20} \quad \frac{5}{10} \quad \frac{2}{3} \quad \frac{4}{16}$$

Challenge

Other fractions equivalent to $\frac{1}{2}$ are $\frac{6}{12}$, $\frac{7}{14}$, $\frac{8}{16}$, $\frac{11}{22}$, etc.

Other fractions equivalent to $\frac{1}{4}$ are $\frac{6}{24}$, $\frac{7}{28}$, $\frac{8}{32}$, $\frac{9}{36}$, etc.

Practice Answers Sheet 2

Complete the missing numerators.

1. $\frac{1}{2} = \frac{5}{10}$ 6. $\frac{1}{10} = \frac{2}{20}$

2. $\frac{2}{10} = \frac{1}{5}$ 7. $\frac{12}{20} = \frac{6}{10}$

3. $\frac{4}{5} = \frac{8}{10}$ 8. $\frac{3}{10} = \frac{6}{20}$

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

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

Write these fractions in order, smallest first.

1. $\frac{3}{10}$ $\frac{1}{2}$ $\frac{7}{10}$

3. $\frac{1}{10}$ $\frac{1}{5}$ $\frac{3}{10}$

2. $\frac{2}{10}$ $\frac{3}{10}$ $\frac{2}{5}$

4. $\frac{3}{10}$ $\frac{7}{10}$ $\frac{4}{5}$

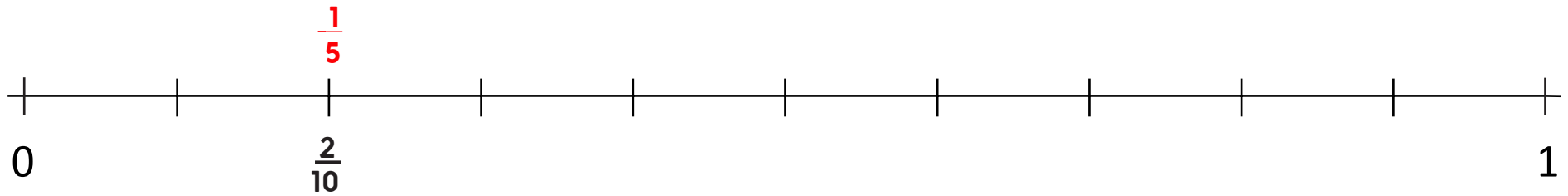
Challenge

Write as many fractions between $\frac{1}{5}$ and $\frac{1}{2}$ as you can.

For example: $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{5}$ $\frac{2}{6}$ $\frac{2}{7}$ $\frac{3}{7}$ $\frac{2}{8}$ $\frac{3}{8}$ $\frac{2}{9}$ $\frac{3}{9}$ $\frac{4}{9}$ $\frac{3}{10}$ $\frac{4}{10}$

A Bit Stuck? Tenths teaser

Mark these fractions below the landmarked line: $\frac{1}{10}$ $\frac{2}{10}$ $\frac{3}{10}$... $\frac{9}{10}$



Write each in its simplest form, where you can, *above* the line.
One pair has been completed to get you started.