Year 4: Week 3, Day 2
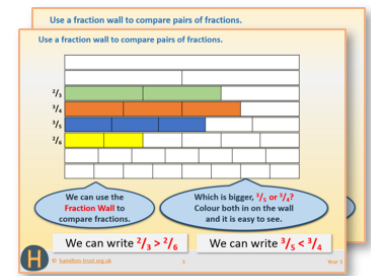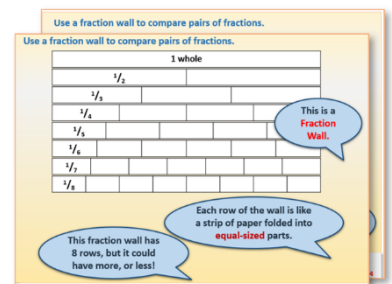## Equivalent fractions (tenths)

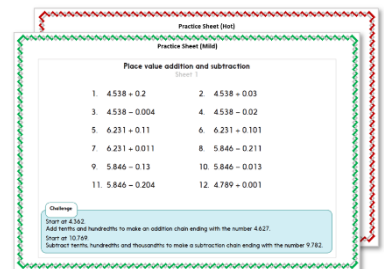**Each day covers one maths topic. It should take you about 1 hour or just a little more.**

1. 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).
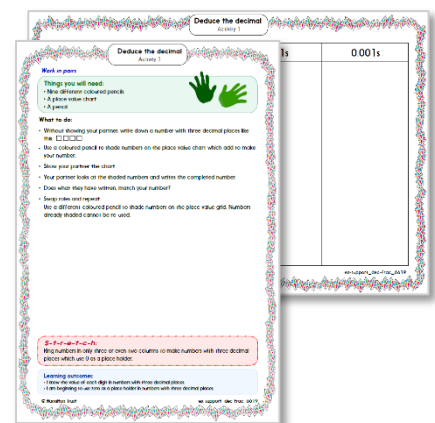
   OR start by carefully reading through the **Learning Reminders**.
   They come from our *PowerPoint* slides.

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?**

© Hamilton Trust

Learning Reminders

Identify equivalent fractions equivalent to tenths.

$^1/_{10}$s

$^1/_5$s

$^1/_2$s

Find pairs of equivalent fractions on these fraction strips.

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

$^2/_{10} = ^1/_5$ $^4/_{10} = ^2/_5$ $^6/_{10} = ^3/_5$ $^8/_{10} = ^4/_5$ $^5/_{10} = ^1/_2$

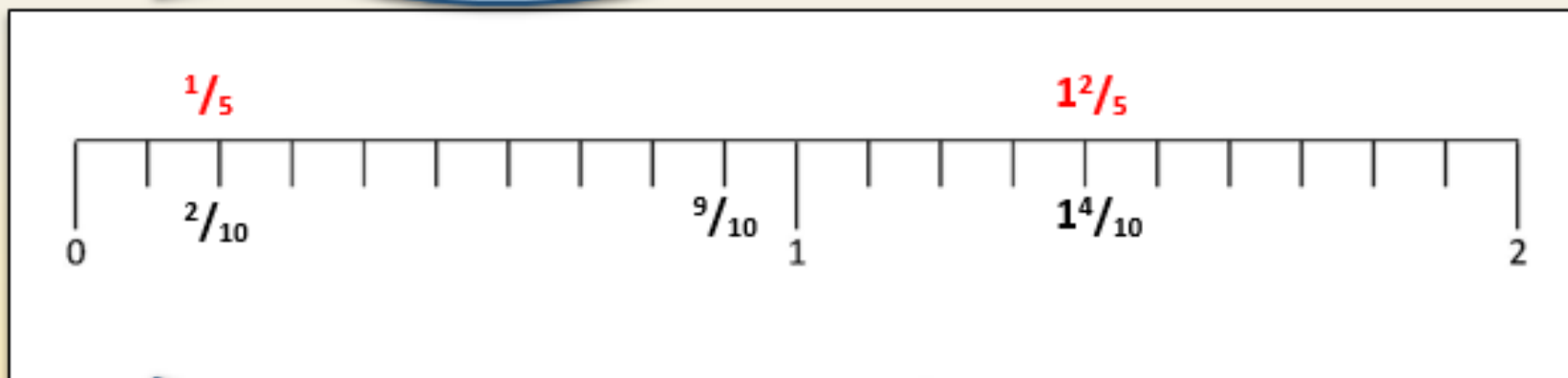# Learning Reminders

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 $\frac{2}{10}$.

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

$\frac{2}{10}$ $\frac{9}{10}$ $1\frac{4}{10}$

0   1   2

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

What about $1\frac{4}{10}$? 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 $\frac{1}{4}$.

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

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

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

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

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

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. $\dfrac{1}{2} = \dfrac{}{10}$

2. $\dfrac{}{10} = \dfrac{1}{5}$

3. $\dfrac{}{5} = \dfrac{8}{10}$

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

5. $\dfrac{6}{10} = \dfrac{}{5}$

6. $\dfrac{1}{10} = \dfrac{}{20}$

7. $\dfrac{12}{20} = \dfrac{}{10}$

8. $\dfrac{3}{10} = \dfrac{}{20}$

Write these fractions in order, smallest first.

1. $\dfrac{1}{2}$ $\dfrac{7}{10}$ $\dfrac{1}{10}$ 3. $\dfrac{1}{5}$ $\dfrac{1}{10}$ $\dfrac{3}{10}$

2. $\dfrac{2}{10}$ $\dfrac{2}{5}$ $\dfrac{3}{10}$ 4. $\dfrac{3}{10}$ $\dfrac{4}{5}$ $\dfrac{7}{10}$

Challenge

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

Practice Answers Sheet 1

$\dfrac{2}{4}$ $\dfrac{3}{4}$ $\dfrac{6}{12}$ $\boxed{\dfrac{5}{20}}$

$\dfrac{20}{40}$ $\boxed{\dfrac{2}{8}}$ $\dfrac{4}{10}$ $\boxed{\dfrac{3}{12}}$

$\dfrac{4}{10}$

$\dfrac{2}{6}$ $\dfrac{8}{12}$ $\dfrac{2}{5}$ $\dfrac{3}{6}$

$\boxed{\dfrac{10}{40}}$ $\dfrac{9}{18}$

$\dfrac{4}{8}$

$\dfrac{8}{16}$ $\dfrac{10}{20}$ $\dfrac{5}{10}$ $\dfrac{2}{3}$ $\boxed{\dfrac{4}{16}}$

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

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

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

4. $\dfrac{\textbf{4}}{10} = \dfrac{2}{5}$

Write these fractions in order, smallest first.

1. $\dfrac{3}{10}$ $\dfrac{1}{2}$ $\dfrac{7}{10}$ 3. $\dfrac{1}{10}$ $\dfrac{1}{5}$ $\dfrac{3}{10}$

5. $\dfrac{6}{10} = \dfrac{\textbf{3}}{5}$

2. $\dfrac{2}{10}$ $\dfrac{3}{10}$ $\dfrac{2}{5}$ 4. $\dfrac{3}{10}$ $\dfrac{7}{10}$ $\dfrac{4}{5}$
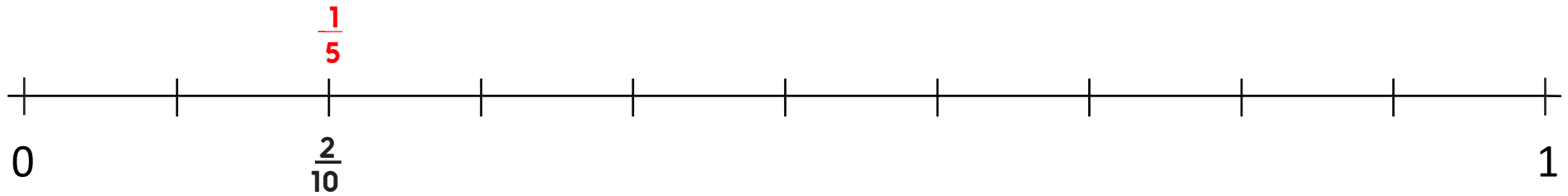
Challenge

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

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

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

$\frac{1}{5}$

|——————|——————|——————|——————|——————|——————|——————|——————|——————|——————|

0                    $\frac{2}{10}$ 1

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