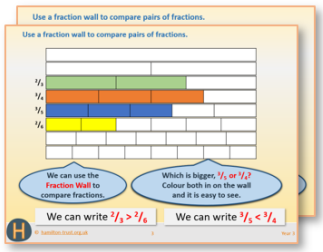
Year 4: Week 4, Day 1

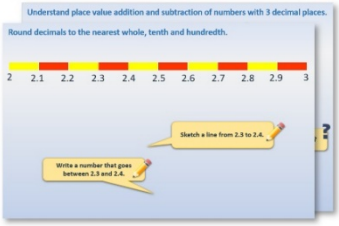
Fraction sequences

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

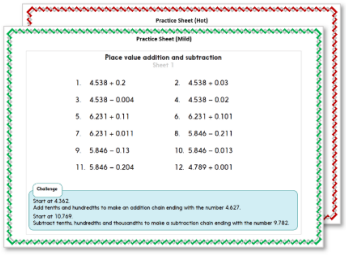
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



   OR start by carefully reading through the **Learning Reminders**.

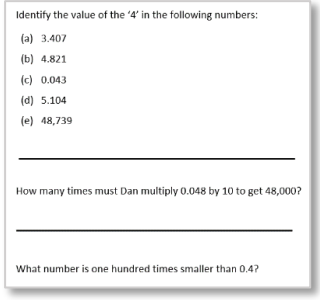


2. Tackle the questions on the **Practice Sheet**.
   There might be a choice of either Mild (easier) or Hot (harder)!
   Check the answers.



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!

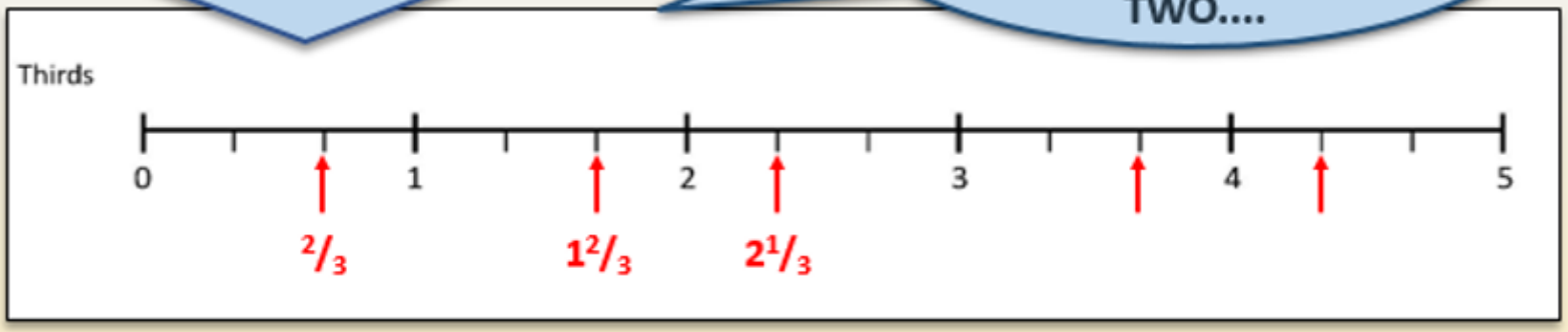


Learning Reminders

Count in $\frac{1}{4}$s, $\frac{1}{3}$s, $\frac{1}{8}$s and $\frac{1}{10}$s saying equivalent fractions.

This number line goes up in **thirds.**

Count along the line... one third, two thirds, ONE, one and one third, one and two thirds, TWO....



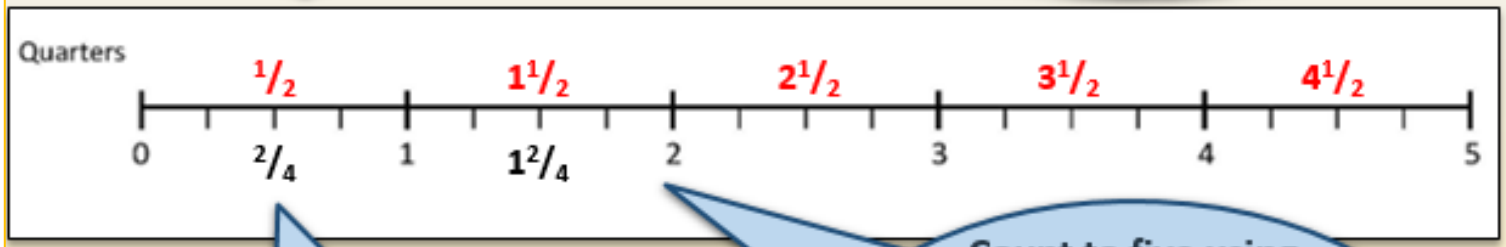
What numbers do the other arrows point to?

Learning Reminders

Count in $\frac{1}{4}$s, $\frac{1}{3}$s, $\frac{1}{8}$s and $\frac{1}{10}$s saying equivalent fractions.

This number line goes up in **quarters.**

Let's count along the line to five. One quarter, two quarters, three quarters, ONE, one and one quarter....



What's another way of saying two quarters?

One and two quarters? Two and two quarters...

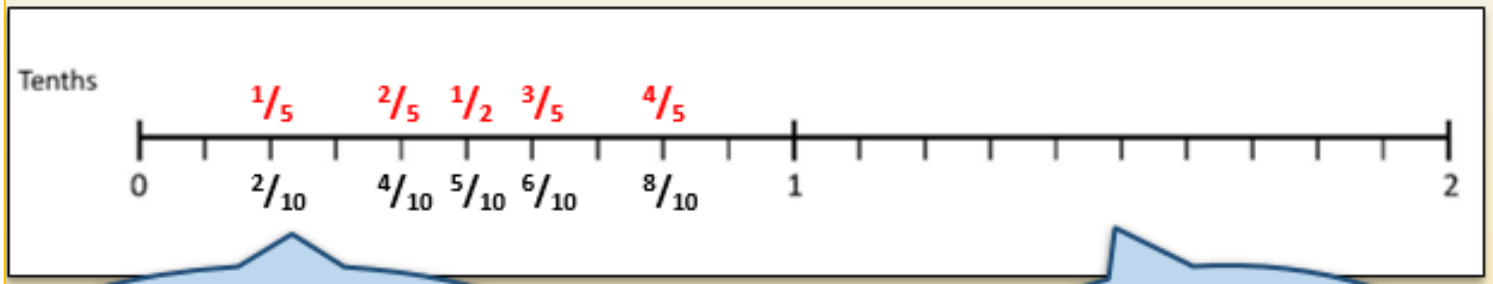
Count to five using quarters and halves. One quarter, one half, three quarters, ONE, one and a quarter, one and a half, one and three quarters...

Learning Reminders

Count in $\frac{1}{4}$s, $\frac{1}{3}$s, $\frac{1}{8}$s and $\frac{1}{10}$s saying equivalent fractions.

This number line goes up in **tenths.**

Count along the line to two. One tenth, two tenths, three tenths.....ONE, one and a tenth....



Let's mark on **equivalent** fractions.

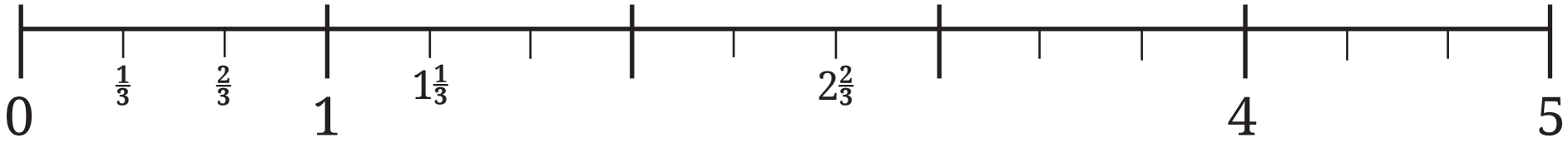
Count along in tenths from 0 to 1 using the simplest equivalent fractions.

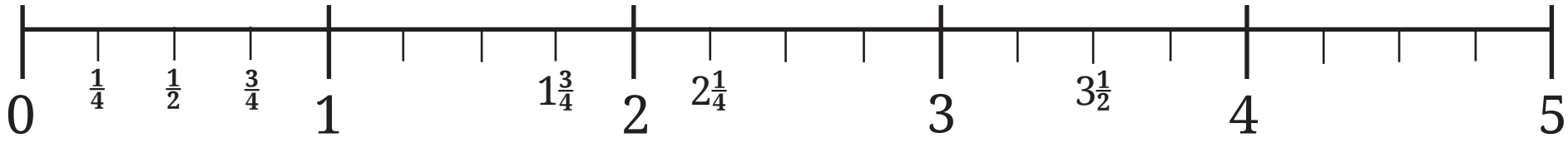
The pattern will be the same from 1 to 2...

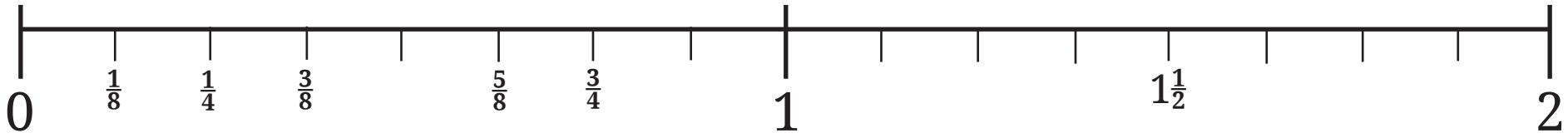
Practice Sheet Mild

Fraction sequences

Fill in the missing numbers in these sequences.
Where possible write fractions in their simplest forms.



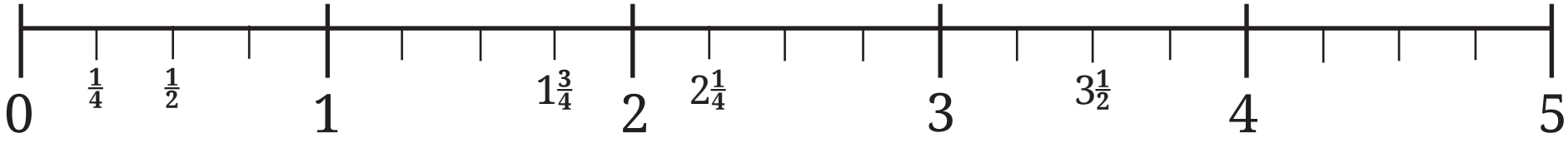


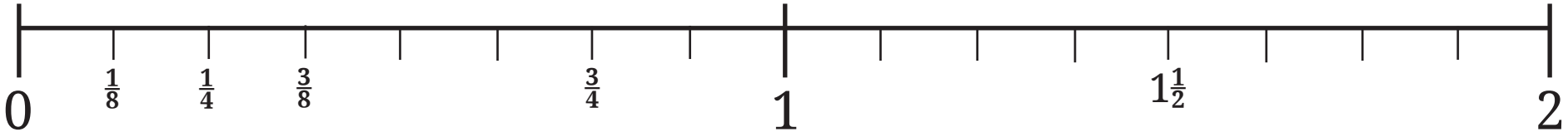


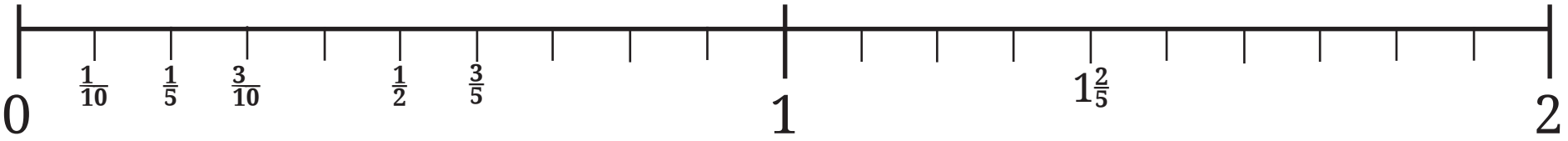
Practice Sheet Hot

Fraction sequences

Fill in the missing numbers in these sequences.
Where possible write fractions in their simplest forms.

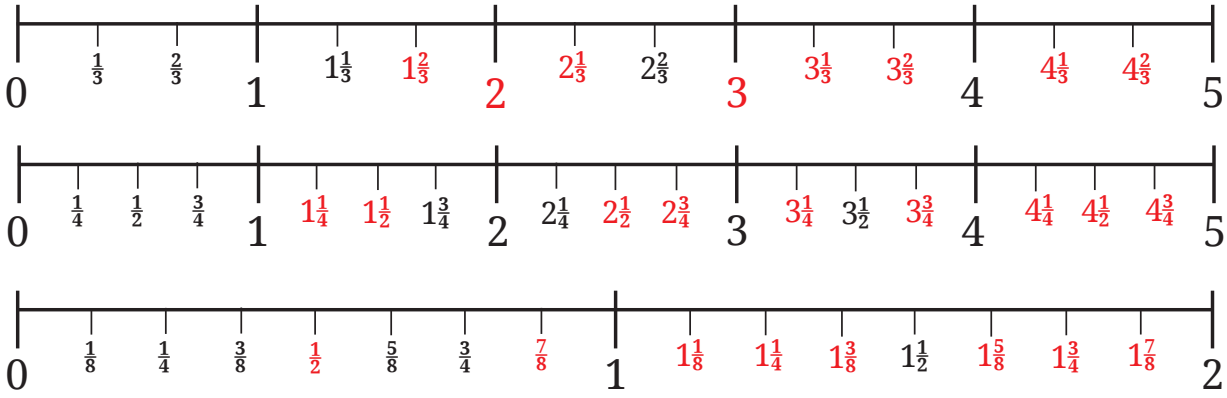




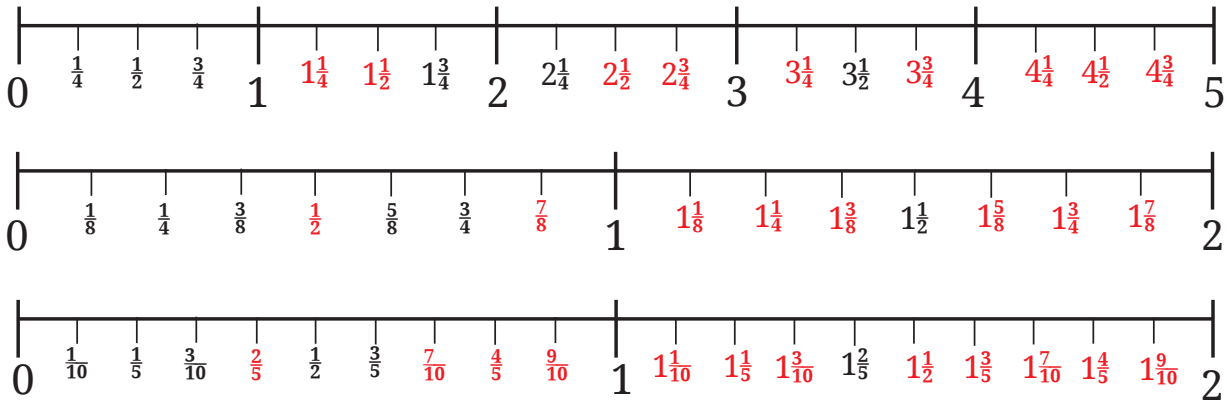


Practice Sheet Answers

Fraction sequences (mild)



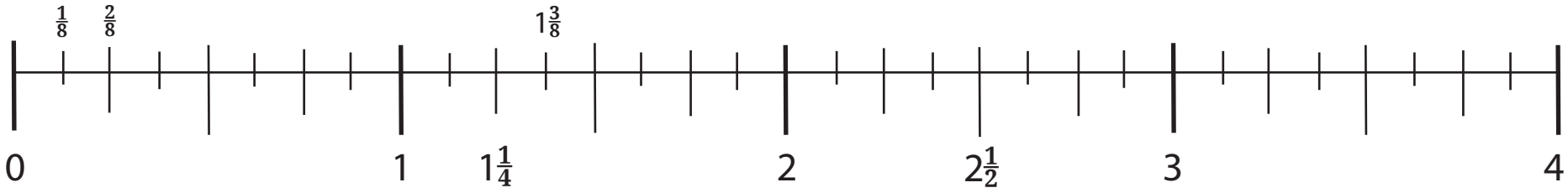
Fraction sequences (hot)



A Bit Stuck?

Labelling fractions

Mark $\frac{1}{2}$s, $\frac{1}{4}$s and $\frac{1}{8}$s on this line.



Challenge

Write at least five pairs of equivalent fractions, e.g. $\frac{2}{4} = \frac{1}{2}$.

Write the missing numbers in the sequence:

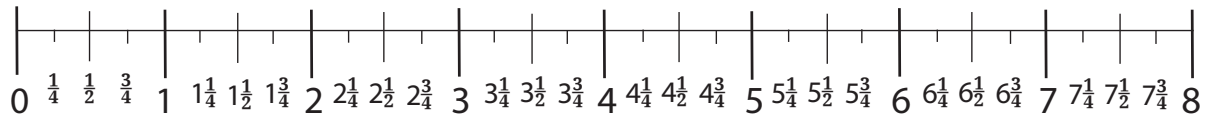
$\frac{1}{2}$, ☐, $1\frac{1}{2}$, 2, $2\frac{1}{2}$, ☐, ☐

$\frac{1}{3}$, $\frac{2}{3}$, ☐, $1\frac{1}{3}$, ☐, ☐

$\frac{1}{4}$, ☐, ☐, ☐, $1\frac{1}{4}$, ☐, $1\frac{3}{4}$

A Bit Stuck Answers

Labelling fractions



Challenge

Complete these pairs of equivalent fractions:

$\frac{2}{4} = \boxed{\frac{1}{2}}$ $2\frac{2}{4} = \boxed{\frac{10}{4}}$ or $\boxed{2\frac{1}{2}}$ $\boxed{\frac{11}{2}}$ or $\boxed{\frac{22}{4}}$ or $\boxed{5\frac{2}{4}} = 5\frac{1}{2}$

Write the missing numbers in the sequence:

$\frac{1}{2}$, 1, $1\frac{1}{2}$, 2, $2\frac{1}{2}$, 3, $3\frac{1}{2}$

$\frac{1}{3}$, $\frac{2}{3}$, 1, $1\frac{1}{3}$, $1\frac{2}{3}$, 2

$\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$

For the last sequence, some children may give $\frac{2}{4}$ rather than $\frac{1}{2}$, which is fine.

Check your understanding

Questions

Bea counts in quarters starting at one quarter.

She says five numbers then stops.

What number should she say next?

Fill in the missing fractions:

$1\frac{1}{2}$, 2, $2\frac{1}{2}$, 3, ☐, 4, ☐, 5

4, $3\frac{3}{4}$, $3\frac{1}{2}$, ☐, 3, ☐, $2\frac{1}{2}$

$\frac{8}{10}$, $\frac{9}{10}$, ☐, ☐, $1\frac{2}{10}$

Fold here to hide answers

Check your understanding

Answers

Bea counts in quarters starting at one quarter.

She says five numbers then stops.

What number should she say next? $1\frac{1}{2}$ (or $1\frac{2}{4}$)

Check on a number line divided into quarters, also useful for next question if children are struggling.

Fill in the missing fractions:

$1\frac{1}{2}$, 2, $2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4, $4\frac{1}{2}$, 5

4, $3\frac{3}{4}$, $3\frac{1}{2}$, $3\frac{1}{4}$, 3, $2\frac{3}{4}$, $2\frac{1}{2}$

$\frac{8}{10}$, $\frac{9}{10}$, 1, $1\frac{1}{10}$, $1\frac{2}{10}$