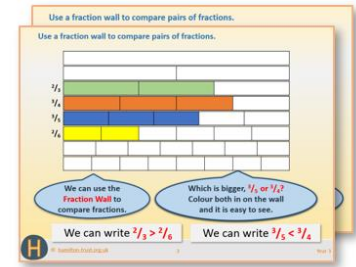


Week 15, Day 1

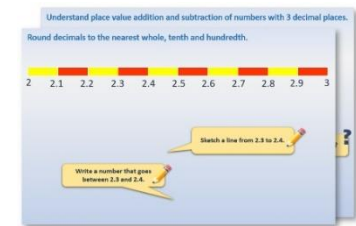
Revise equivalent fractions

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

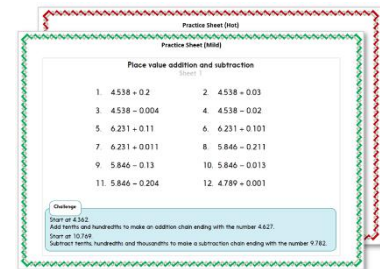
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



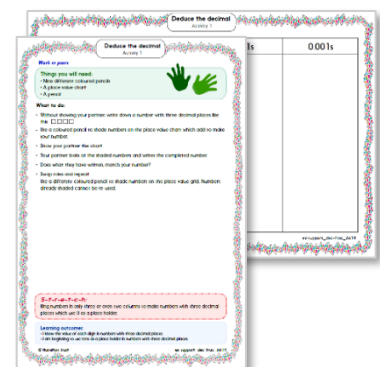
OR start by carefully reading through the **Learning Reminders**.



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?**



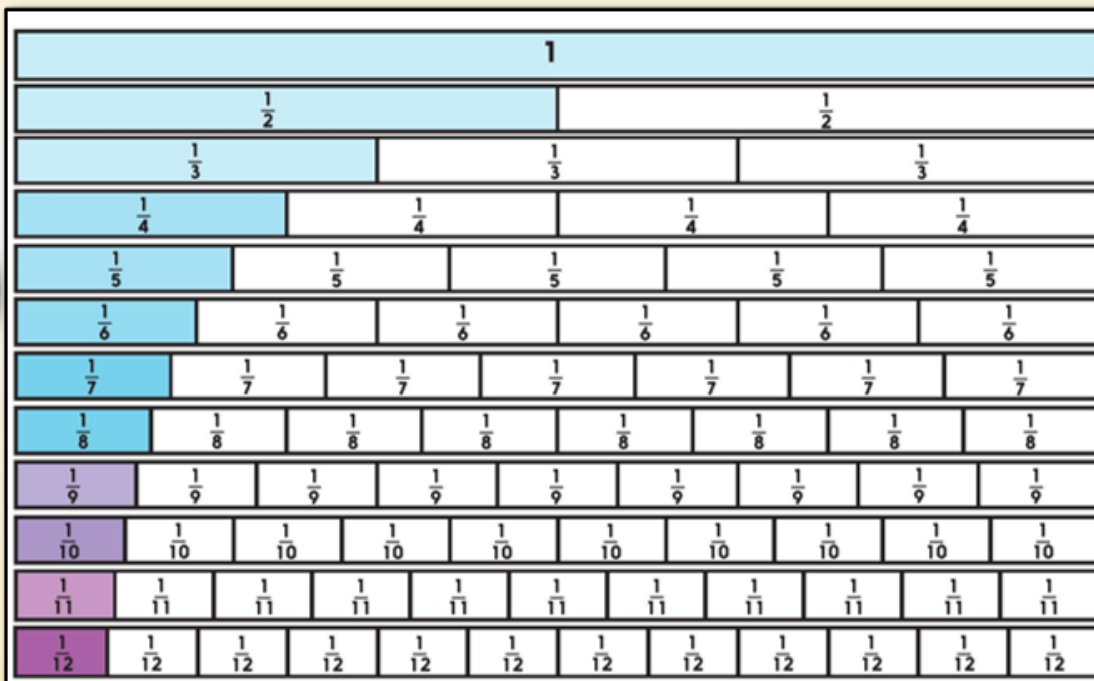
4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation...**

Learning Reminders

Identify equivalent fractions

Notice that as the denominator gets **larger**, the parts of the whole get **smaller**.

Fraction Wall



Reminder

The 'bottom' of a fraction is called the **denominator**.
It tells us how many parts each whole strip has been divided into.

The 'top' of a fraction is called the **numerator**.
It tells us how many parts of the fraction there are.

Learning Reminders

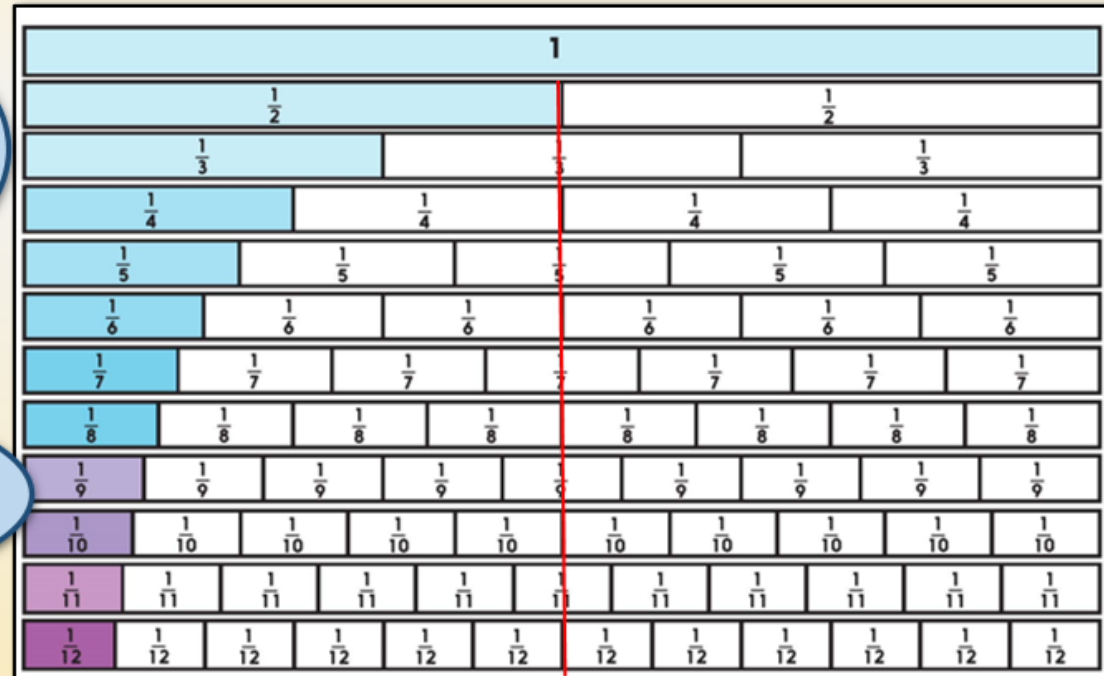
Identify equivalent fractions

We can use the fraction wall to find or check equivalent fractions.

Draw a line down from $\frac{1}{2}$.

So, $\frac{2}{4}$, $\frac{3}{6}$, $\frac{4}{8}$, $\frac{5}{10}$
and $\frac{6}{12}$ are all
equivalent to $\frac{1}{2}$.

Fraction Wall



The **numerator** of those fractions is always half the **denominator**.

Identify equivalent fractions

We can write $\frac{6}{12}$ as $\frac{1}{2}$.
This is called writing the fraction in its **simplest form**.

We can find the **simplest form** by dividing the **numerator** and **denominator** by the same number, in this case 6.

What is the simplest fraction equivalent to $\frac{2}{6}$?
What number can you divide both 2 and 6 by?

What is the simplest fraction equivalent to $\frac{6}{9}$?
What can you divide both 6 and 9 by?

ANSWERS

$\frac{6}{9} = \frac{2}{3}$
Divide both the numerator and denominator by 3.

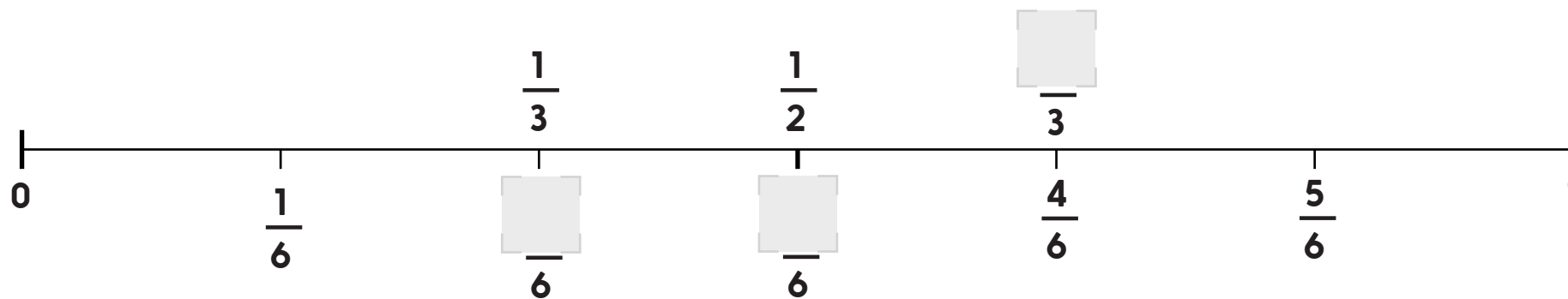
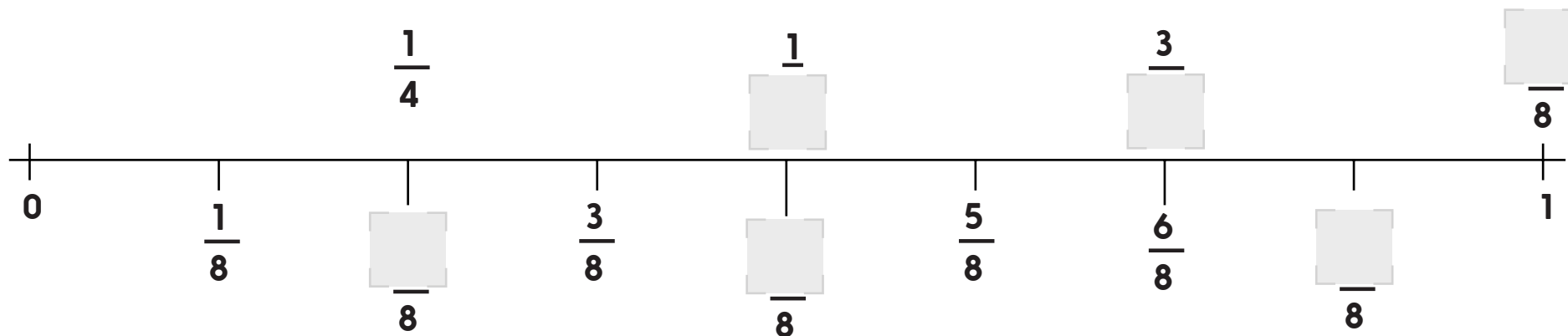
$\frac{2}{6} = \frac{1}{3}$
You can check on the Fraction Wall!

Identify equivalent fractions

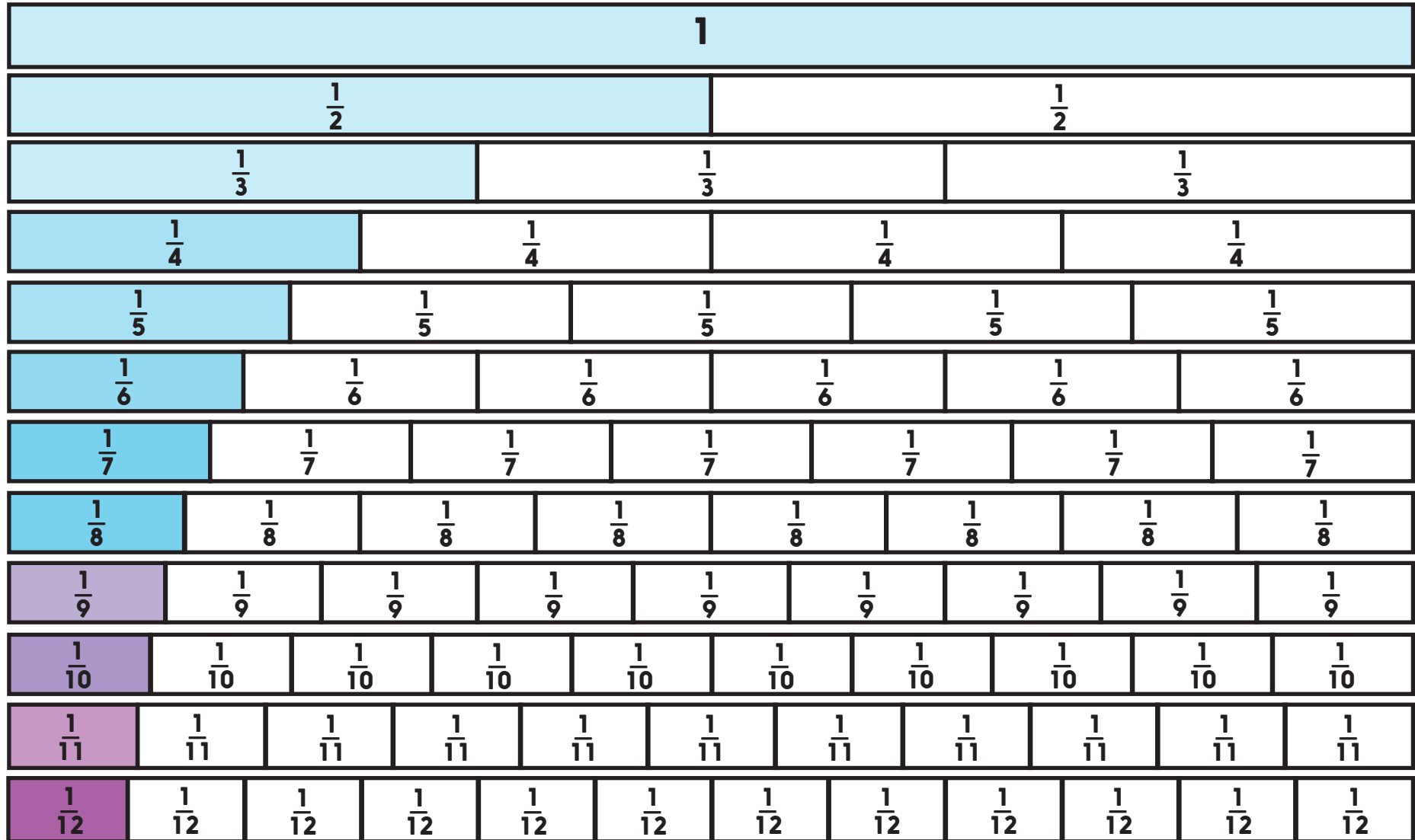
Practice Sheet Mild

Equivalent fractions

Complete the missing numbers on the number lines – use the fraction wall to check your answers.



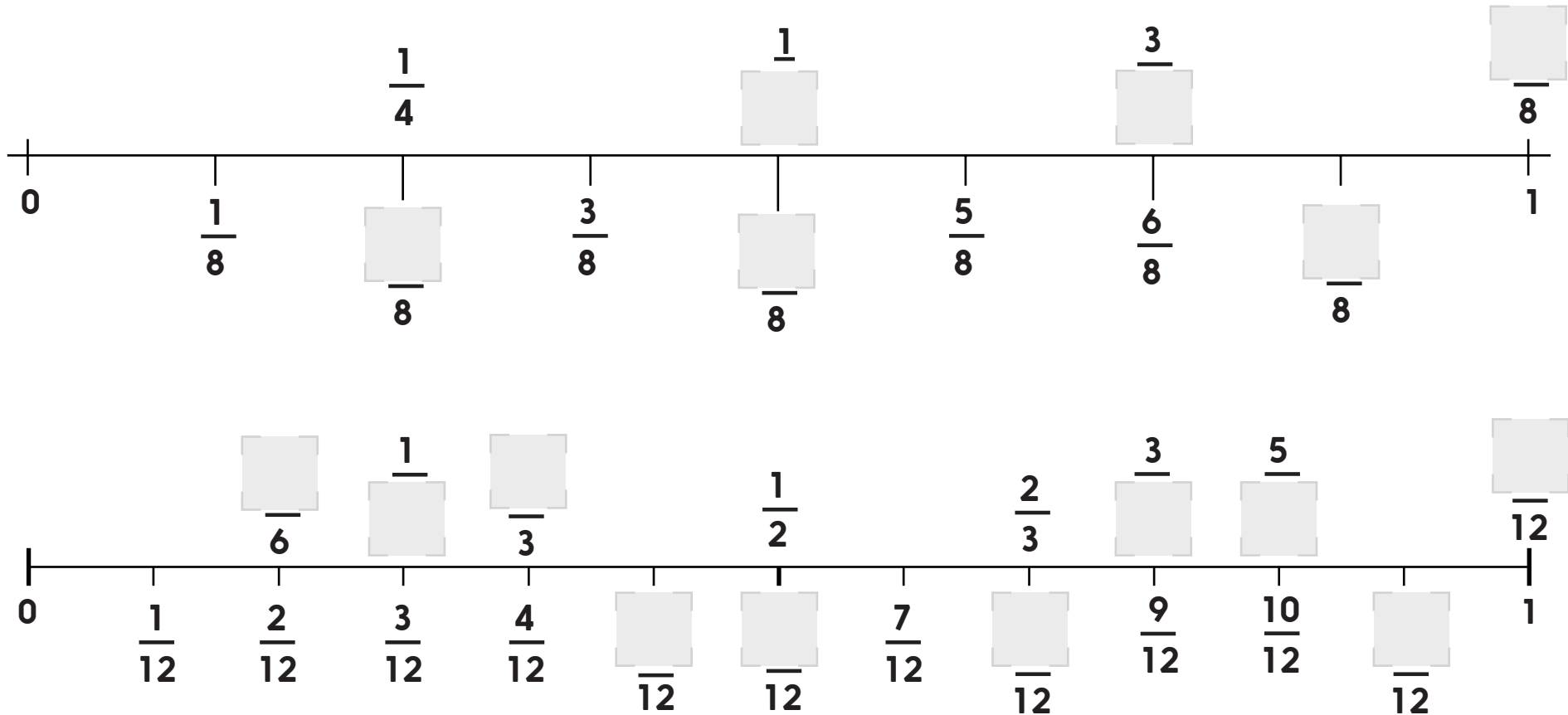
Fraction wall



Practice Sheet Hot

Equivalent fractions

Complete the missing numbers on the number lines – use the fraction wall to check your answers.



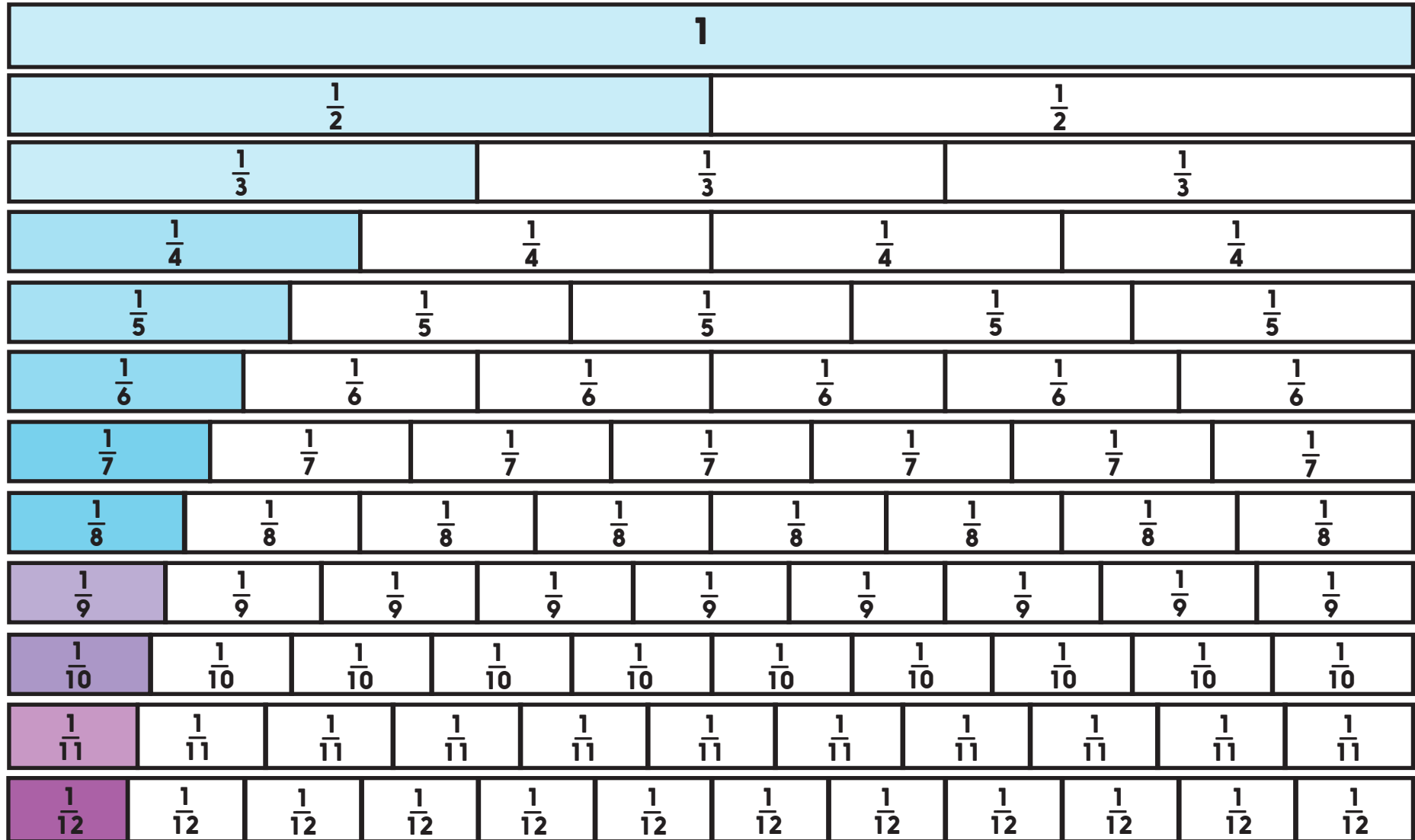
Practice Sheet Hot - Challenge

Equivalent fractions

Use the fraction wall to write a list of equivalent fifths and tenths. Mark them on the blank number line.

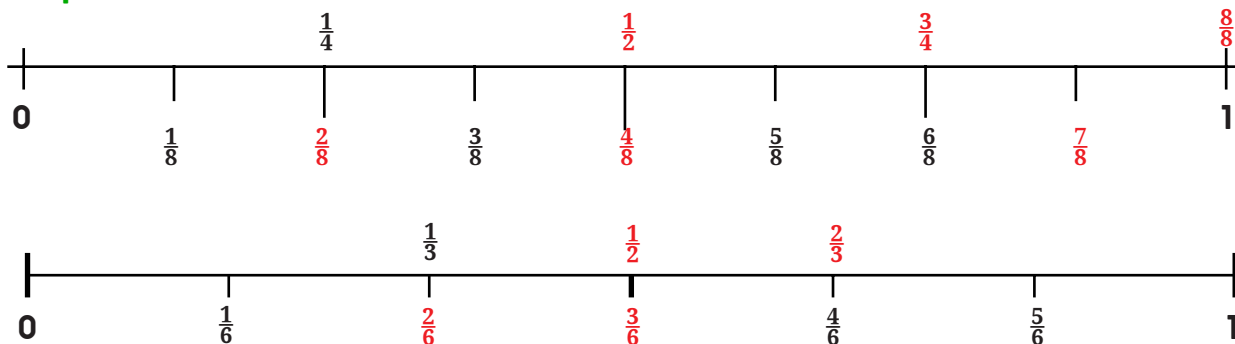


Fraction wall

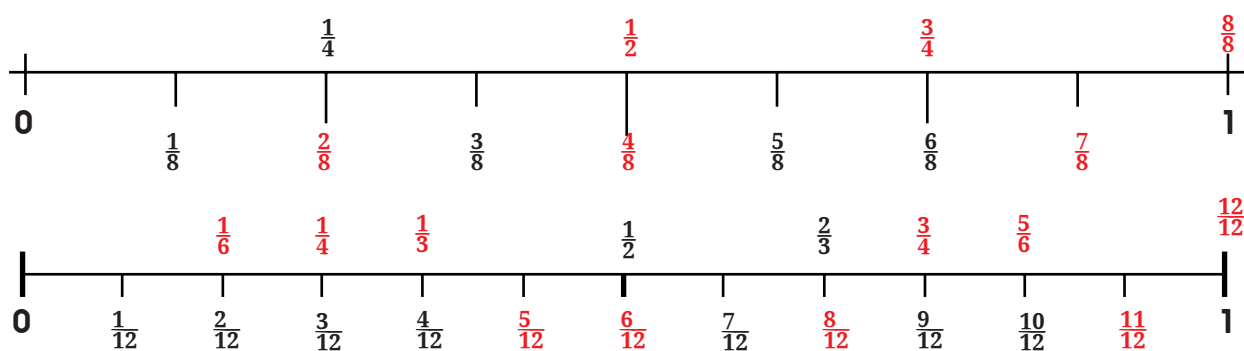


Practice Sheets Answers

Equivalent fractions and decimals (mild)



Equivalent fractions and decimals (hot)



Equivalent fractions and decimals (challenge)

Check that the children's sketch shows a good attempt to show fifths marked at equally spaced intervals between 0 and 1, with equivalent fractions as follows:

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

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

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

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

Children may mark $\frac{5}{5} = \frac{10}{10}$ which is also correct.

A Bit Stuck?

Finding equivalent fractions

- Circle **one-half** in **yellow**. Now find any **equivalent fractions** and also circle in **yellow**. You can use the fraction wall to help find the answers!
- Circle **one-quarter** in **blue**. Now find any **equivalent fractions** and also circle in **blue**.
- Circle **one-third** in **pink**. Now find any **equivalent fractions** and also circle in **pink**.
- Circle **two-thirds** in red. Now find any **equivalent fractions** and also circle in **red**.

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

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

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

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

$$\frac{4}{6}$$

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

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

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

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

$$\frac{4}{12}$$

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

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

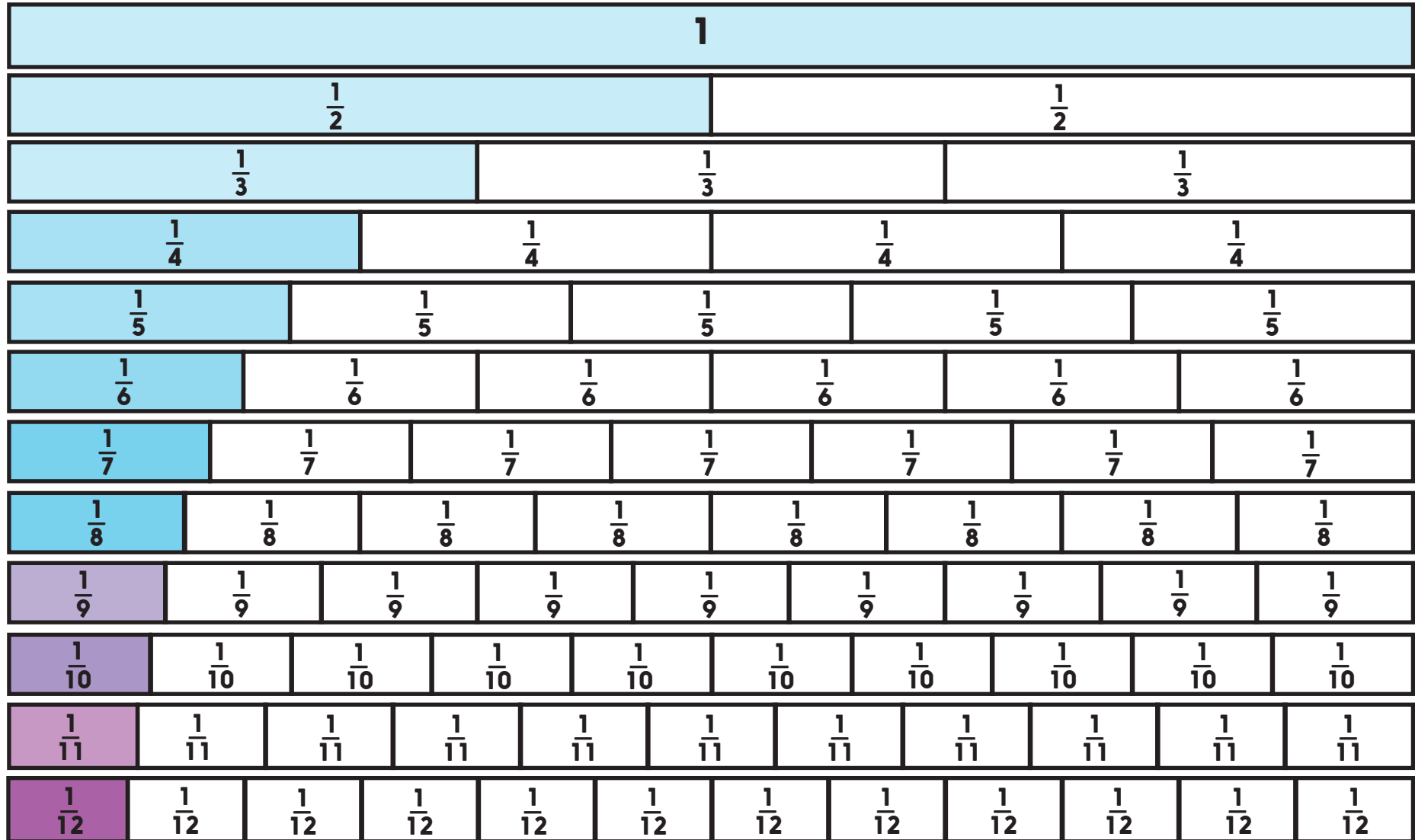
$$\frac{2}{6}$$

$$\frac{1}{4}$$

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

$$\frac{1}{3}$$

Fraction wall



A Bit Stuck?

Answers

Finding equivalent fractions

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

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

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

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

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

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

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

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

$$\frac{4}{12}$$

$$\frac{4}{6}$$

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

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

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

$$\frac{1}{4}$$

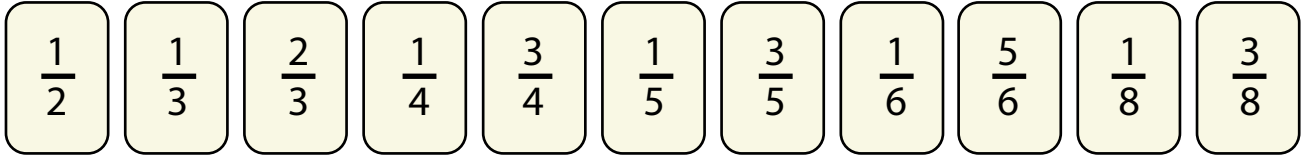
$$\frac{2}{8}$$

$$\frac{1}{3}$$

Investigation

Best score for me!

1. Use this line of fraction cards.



2. Choose a fraction, e.g. $\frac{3}{4}$
3. Look at the first square below.
4. Identify two numbers, which, one over the other, make an equivalent fraction to the one chosen, e.g. $\frac{9}{12}$
5. Write the equivalent fraction below the appropriate fraction card.
6. Cross out these two numbers on the first square.
7. Choose another fraction, and repeat, e.g. choose $\frac{1}{5}$, write $\frac{4}{20}$ and cross out 4 and 20.
7. Keep going like this. *You cannot use a crossed-out number on your square for a second time!*
8. For how many fraction cards did you manage to write equivalent fractions underneath? A good score is anything over 6, but you are chasing 9 or 10!

What sort of fractions is it best to choose first? Why?

Why is it not sensible to choose $\frac{1}{2}$ first?

Which numbers on the square are never used?

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36