# <u>Tuesday Maths - Year 4</u>

Today you are going to explore equivalent fractions further and learn to recognise them using different representations and images.

You will be working with number lines and bar models to support you and begin to see the relationship between the different equal pieces.

Today's video and worksheet.
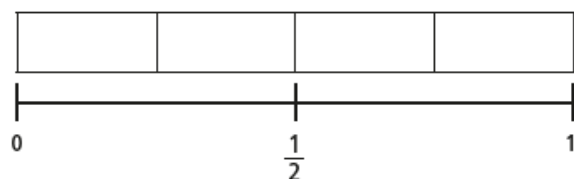
[Click here for today's teaching video](#)

1   Shade the bar models to represent the fractions.

**a)** Shade $\frac{1}{2}$ of the bar model.

|  |  |
|---|---|

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

**b)** Shade $\frac{2}{4}$ of the bar model.

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

**c)** Shade $\frac{3}{6}$ of the bar model.

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

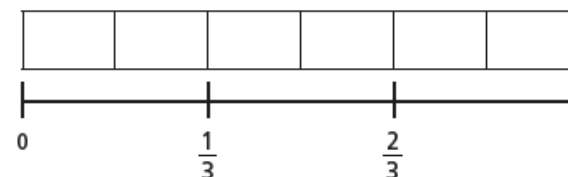**d)** What do you notice?

**e)** Write another fraction that is equivalent to $\frac{1}{2}$
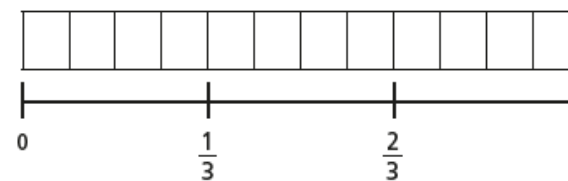
2   Shade $\frac{2}{3}$ of each bar model.
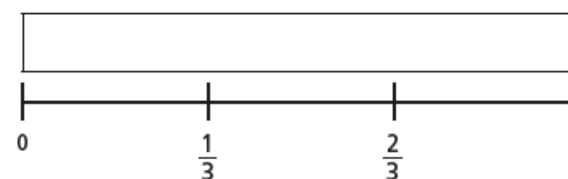
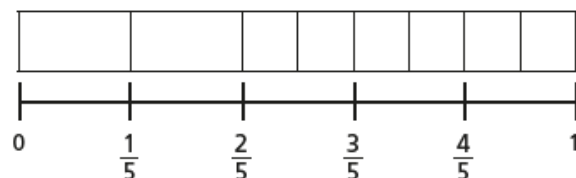**a)**

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

**b)**

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

**c)**

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

**d)** Use your answers to parts a), b) and c) to complete the equivalent fractions.

$$\frac{2}{3} = \frac{\boxed{\phantom{x}}}{6} = \frac{8}{\boxed{\phantom{x}}} = \frac{\boxed{\phantom{x}}}{15}$$

**3** Mo is finding equivalent fractions.

Number line 0 to 1 divided into fifths: 0, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$, 1

Number line 0 to 1 divided into fifths then further: 0, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$, 1
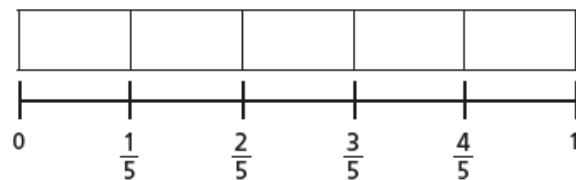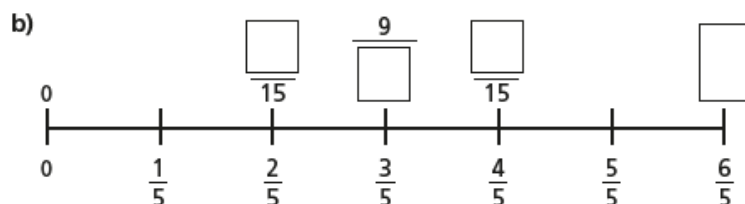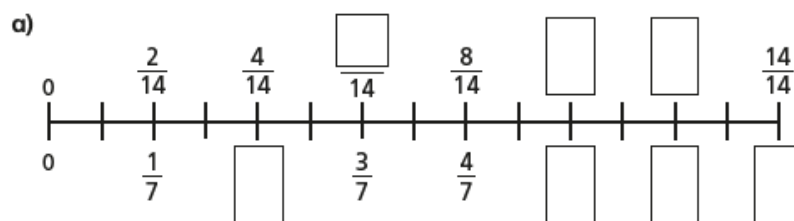
$\frac{6}{8}$ is equivalent to $\frac{4}{5}$
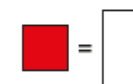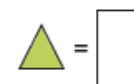
Do you agree with Mo? _____

Explain your answer.

**4** Find the missing numbers.

a) Number line with top labels: $\frac{2}{14}$, $\frac{4}{14}$, $\frac{\square}{14}$, $\frac{8}{14}$, $\square$, $\square$, $\frac{14}{14}$ starting at 0

Bottom labels: 0, $\frac{1}{7}$, $\square$, $\frac{3}{7}$, $\frac{4}{7}$, $\square$, $\square$, $\square$

b) Number line with top labels: $\frac{\square}{15}$, $\frac{9}{\square}$, $\frac{\square}{15}$, $\square$ starting at 0

Bottom labels: 0, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$, $\frac{5}{5}$, $\frac{6}{5}$

**5** Here is a number line.

Number line 0 to 1 with a triangle and square pointing to positions.
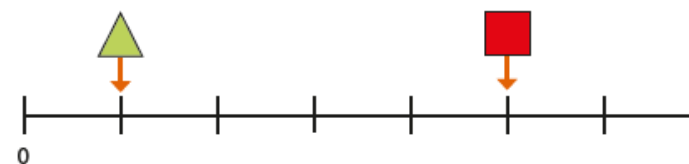
a) What fraction is each shape pointing to?

△ = □    ■ = □

b) A circle is halfway between the triangle and the square.

Draw the circle on the number line.

c) The circle is pointing to $\frac{9}{21}$

Do you agree with Eva? _____

Show how you worked this out.

d) Write three equivalent fractions for each shape.

△ □ □ □    ● □ □ □

■ □ □ □

Compare answers with a partner.