Equivalent fractions (2)
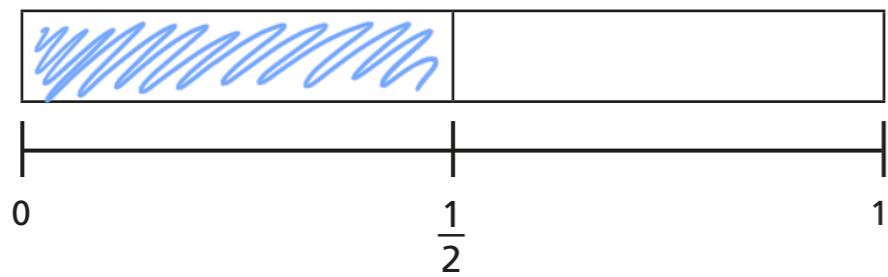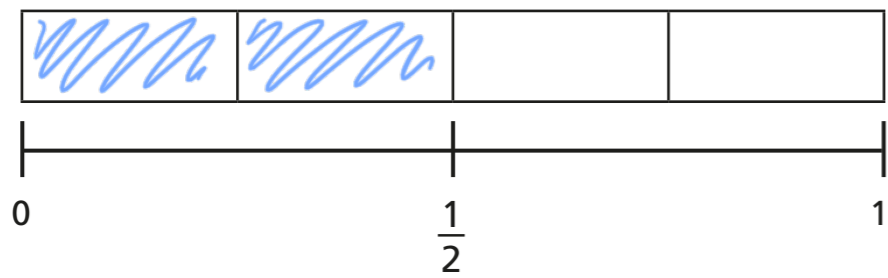
1 Shade the bar models to represent the fractions.
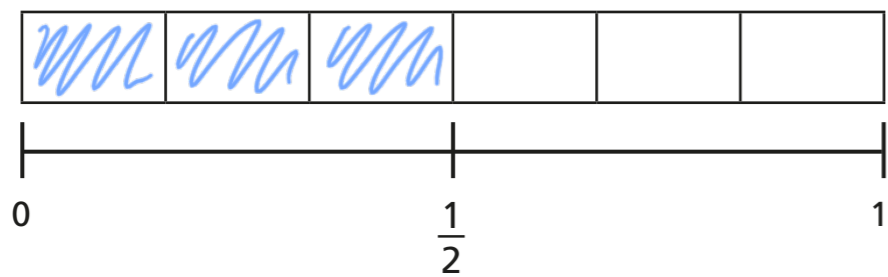
a) Shade $\frac{1}{2}$ of the bar model.

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

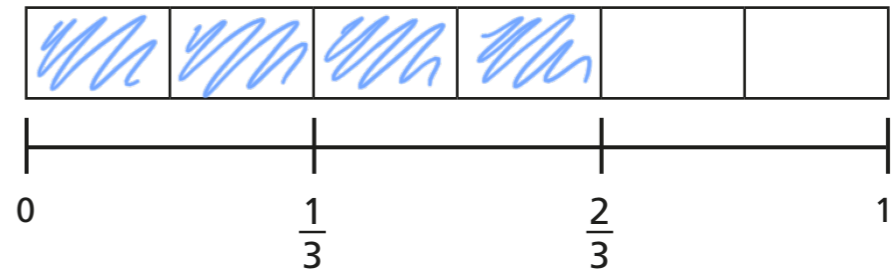**d)** What do you notice?

e) Write another fraction that is equivalent to $\frac{1}{2}$ e.g. $\boxed{\frac{4}{8}}$

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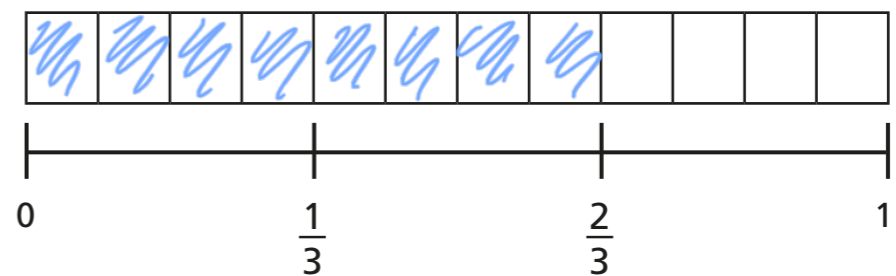
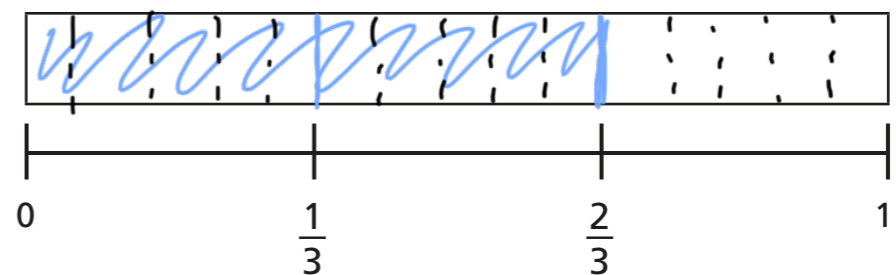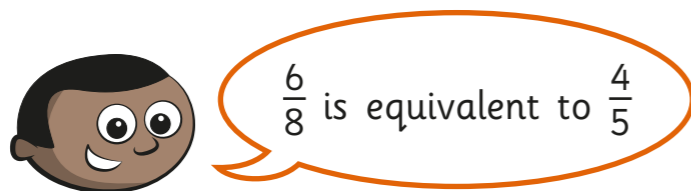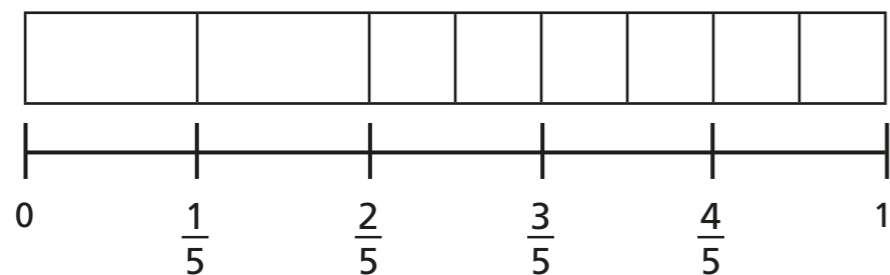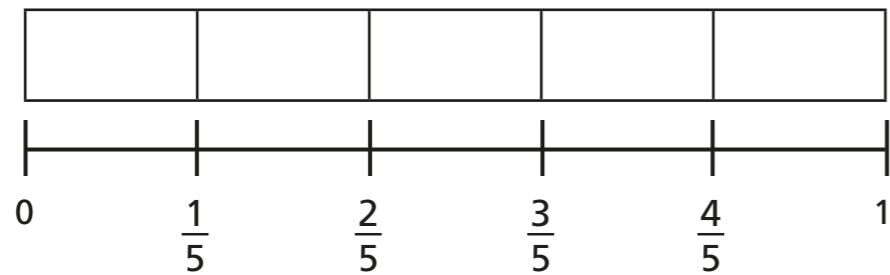**d)** Use your answers to parts a), b) and c) to complete the equivalent fractions.

$$\frac{2}{3} = \frac{\boxed{4}}{6} = \frac{8}{\boxed{12}} = \frac{\boxed{10}}{15}$$
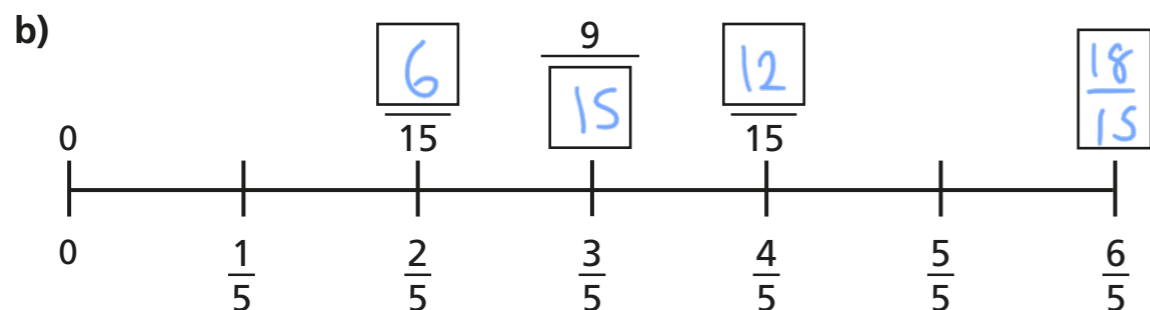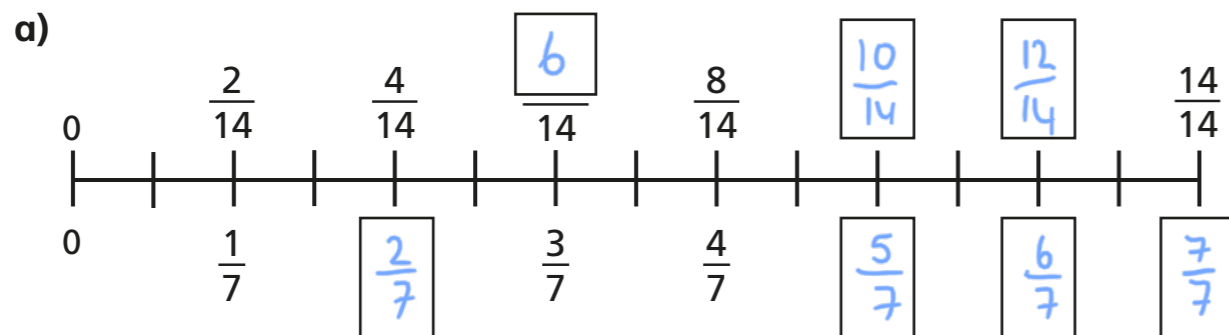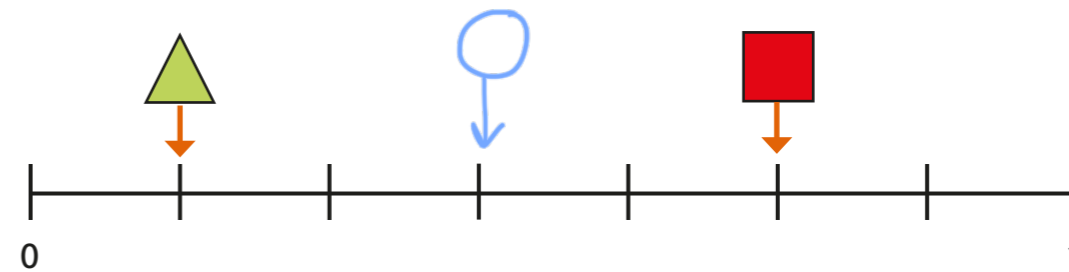
3 Mo is finding equivalent fractions.

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

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? __No__

Explain your answer.

4 Find the missing numbers.

a)

$\frac{2}{14}$ $\frac{4}{14}$ $\frac{6}{14}$ $\frac{8}{14}$ $\frac{10}{14}$ $\frac{12}{14}$ $\frac{14}{14}$

0   $\frac{1}{7}$ $\frac{2}{7}$ $\frac{3}{7}$ $\frac{4}{7}$ $\frac{5}{7}$ $\frac{6}{7}$ $\frac{7}{7}$

b)

$\frac{6}{15}$ $\frac{9}{15}$ $\frac{12}{15}$ $\frac{18}{15}$

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.

0   1

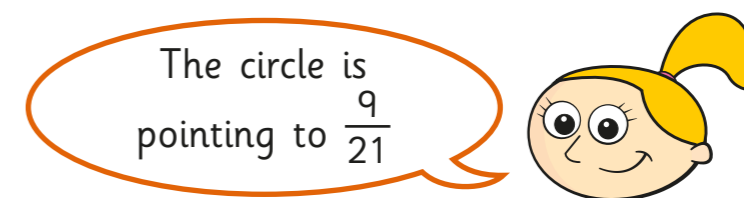**a)** What fraction is each shape pointing to?

△ = $\frac{1}{7}$ ■ = $\frac{5}{7}$

b) A circle is halfway between the triangle and the square.
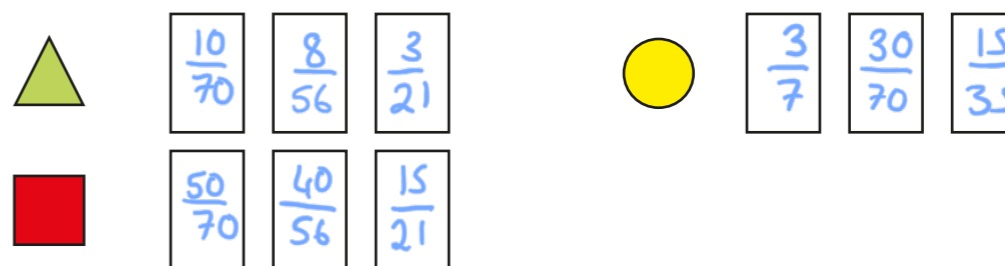
Draw the circle on the number line.

c)

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

Do you agree with Eva? __Yes__

Show how you worked this out.

d) Write three equivalent fractions for each shape.

e.g.

△ $\frac{10}{70}$ $\frac{8}{56}$ $\frac{3}{21}$ ◯ $\frac{3}{7}$ $\frac{30}{70}$ $\frac{15}{35}$

■ $\frac{50}{70}$ $\frac{40}{56}$ $\frac{15}{21}$

Compare answers with a partner.