Steps to success

Lockdown work	
Date	9.2.21
Subject/s	Maths
Learning Objective	To understand equivalent fractions.

		SA	TA
Success Criteria	I know what the word equivalent means.		
	I understand that fractions can look different but have the same value.		
	I can compare fractions and decide if they are equivalent.		
Support	Independently Support ( ) Group work		
Pre-task:			

Use the models on the number line to identify the missing fractions. Which fractions are equivalent?
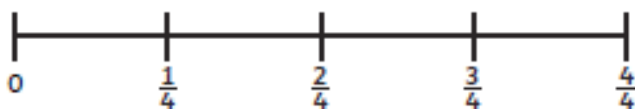
Fluency

1) Circle the bar models that could be placed on each number line correctly.

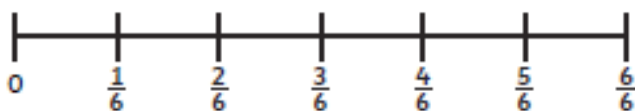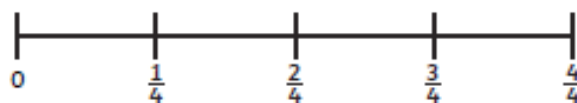Then, write which fraction on the number line they are equivalent to.

a)

_____

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

b)

_____

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

c)

_____

_____

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

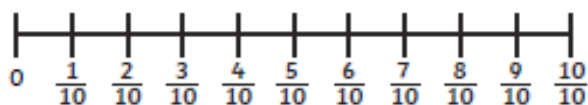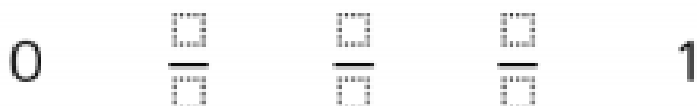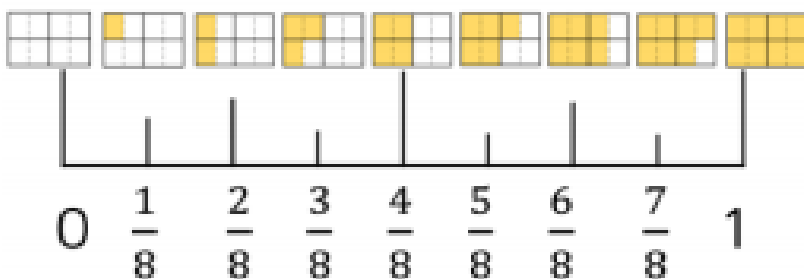**2)** Place the equivalent fractions in the correct place on the number lines.

a) $\frac{3}{5}$ $\frac{1}{5}$ $\frac{1}{1}$
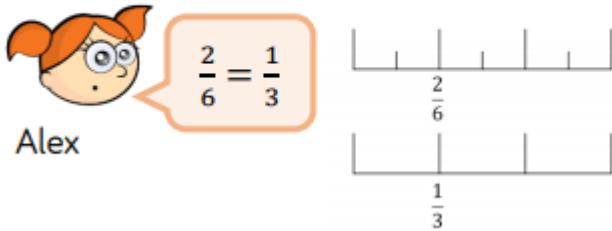
b) $\frac{12}{12}$ $\frac{6}{8}$ $\frac{3}{12}$

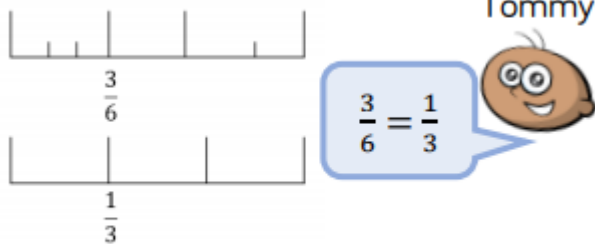$$0 \quad \frac{1}{10} \quad \frac{2}{10} \quad \frac{3}{10} \quad \frac{4}{10} \quad \frac{5}{10} \quad \frac{6}{10} \quad \frac{7}{10} \quad \frac{8}{10} \quad \frac{9}{10} \quad \frac{10}{10}$$

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

Complete the missing equivalent fractions.

$$0 \quad \frac{1}{8} \quad \frac{2}{8} \quad \frac{3}{8} \quad \frac{4}{8} \quad \frac{5}{8} \quad \frac{6}{8} \quad \frac{7}{8} \quad 1$$

$$0 \qquad \frac{\square}{\square} \qquad \frac{\square}{\square} \qquad \frac{\square}{\square} \qquad 1$$

Problem solving and reasoning:

Alex and Tommy are using number lines to explore equivalent fractions.

Alex: $\frac{2}{6} = \frac{1}{3}$

$\frac{2}{6}$

$\frac{1}{3}$

Tommy

$\frac{3}{6}$

$\frac{1}{3}$
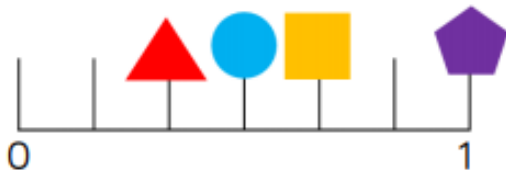
Tommy: $\frac{3}{6} = \frac{1}{3}$

Who do you agree with? Explain why.

0   1

Use the clues to work out which fraction is being described for each shape.

- My denominator is 6 and my numerator is half of my denominator.
- I am equivalent to $\frac{4}{12}$
- I am equivalent to one whole
- I am equivalent to $\frac{2}{3}$

Can you write what fraction each shape is worth? Can you record an equivalent fraction for each one?

▲ =   🟧 =

🔵 =   ⬠ =

Further Challenge

1) Can you represent $\frac{6}{8}$ as a fraction in a variety of ways? Use equivalences on number lines, bar models and number shapes as part of your answer.