Blue task – Equivalent fractions – Day 2
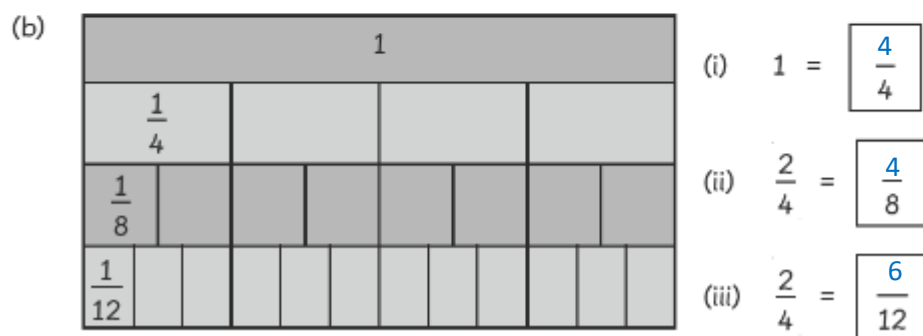
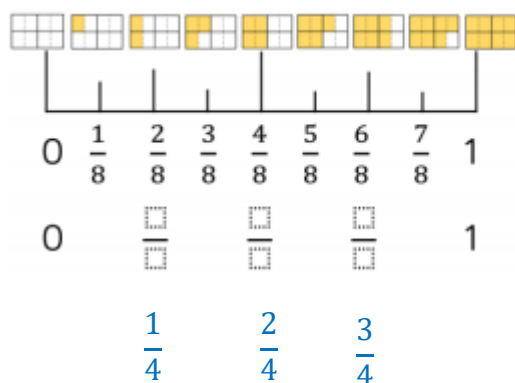1)

Look at the diagram and fill in the blanks.

(a)

(i) $1 = \dfrac{3}{3}$

(ii) $\dfrac{2}{3} = \dfrac{4}{6}$

(b)

(i) $1 = \dfrac{4}{4}$

(ii) $\dfrac{2}{4} = \dfrac{4}{8}$

(iii) $\dfrac{2}{4} = \dfrac{6}{12}$
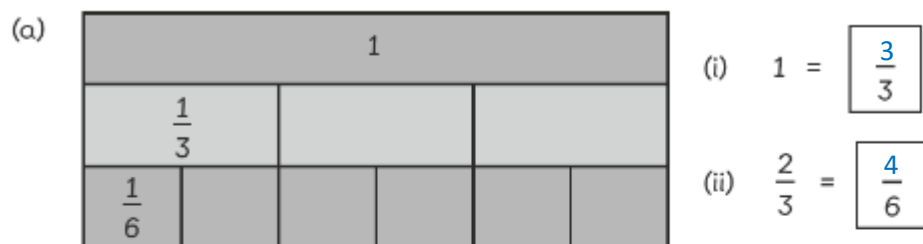
2) Use the models on the number line to identify the missing fractions. Which fractions are equivalent?

$0 \qquad \dfrac{\Box}{\Box} \qquad 1 \qquad 0 \qquad \dfrac{\Box}{\Box} \quad \dfrac{\Box}{\Box} \quad \dfrac{\Box}{\Box} \qquad 1$

$\dfrac{1}{2} \qquad\qquad\qquad \dfrac{1}{4} \quad \dfrac{2}{4} \quad \dfrac{3}{4}$
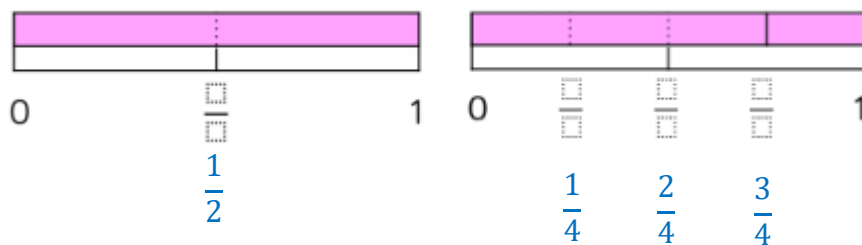
3) Complete the missing equivalent fractions.

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

$0 \qquad \dfrac{\Box}{\Box} \qquad \dfrac{\Box}{\Box} \qquad \dfrac{\Box}{\Box} \qquad 1$

$\qquad\quad \dfrac{1}{4} \qquad \dfrac{2}{4} \qquad \dfrac{3}{4}$

4) Shade 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)

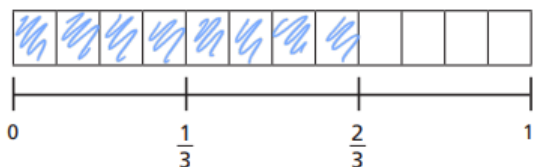0 $\frac{1}{3}$ $\frac{2}{3}$ 1
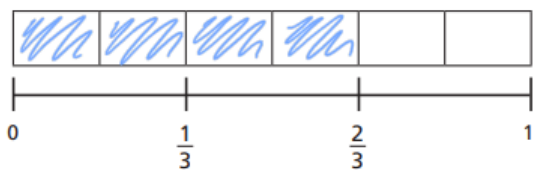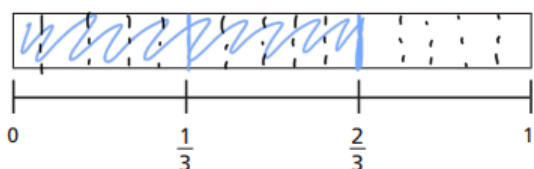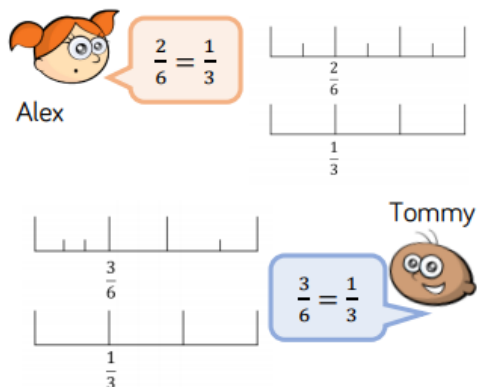
Alex and Tommy are using number lines to explore equivalent fractions. Who do you agree with? Explain why.

5)

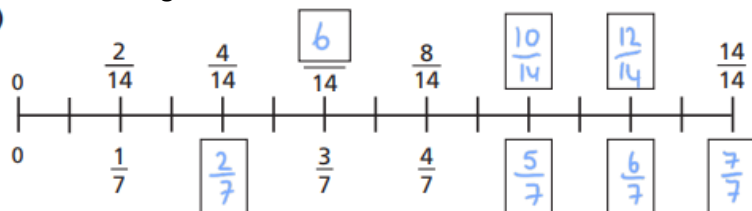Alex: $\frac{2}{6} = \frac{1}{3}$

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

Alex is correct. Tommy's top number line isn't split into equal parts which means he cannot find the correct equivalent fraction.

6) 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    $\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$ $\frac{5}{5}$ $\frac{6}{5}$