

Arithmetic

$$\frac{2}{3} = \frac{?}{9}$$

$$\frac{3}{7} + \frac{4}{7} =$$

$$\frac{8}{12} - \frac{5}{12} =$$

Finding Equivalent Fractions

Lesson
8

In Focus

Fold the paper strips to show halves, quarters and eighths.

Can you also show sixths?

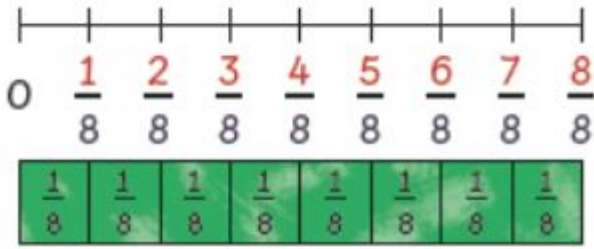
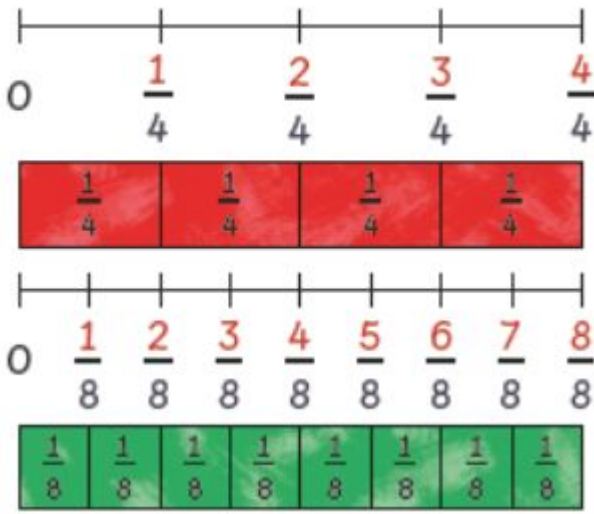
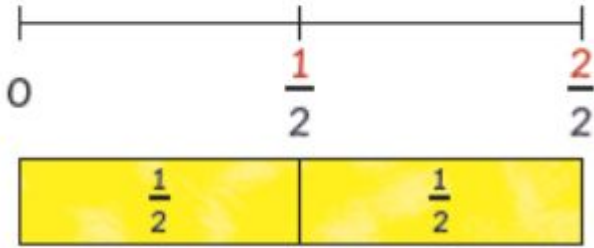
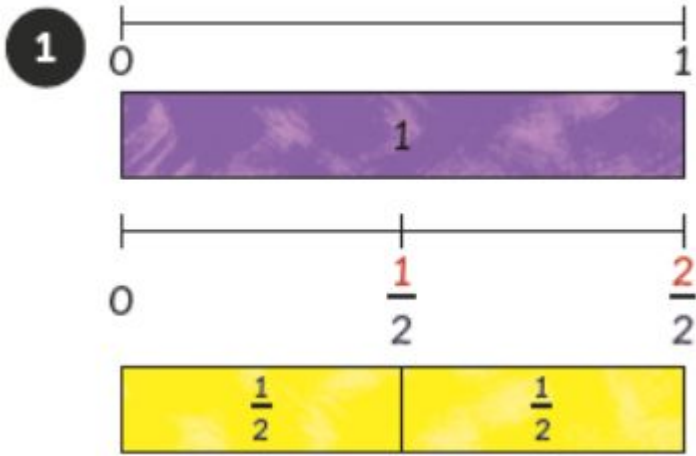


Which number do you think would go at the start of the number line? Explain why?

My friend said that he pretends a number line is just like the measures on the side of a measuring cup. When there is no water in the measuring cup, there is 0.

As you begin to fill the cup, what happens? The unit of measure increases.

Let's Learn



We can show fractions on a number line.



What are the equivalent fractions of $\frac{1}{4}$?



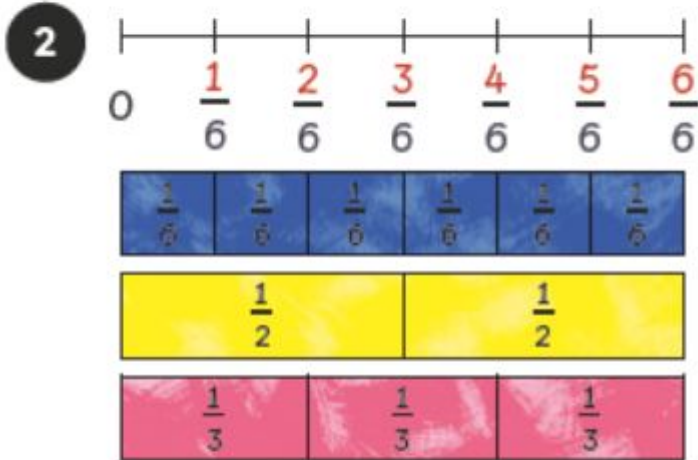
$$\frac{3}{4} = \frac{6}{8}$$



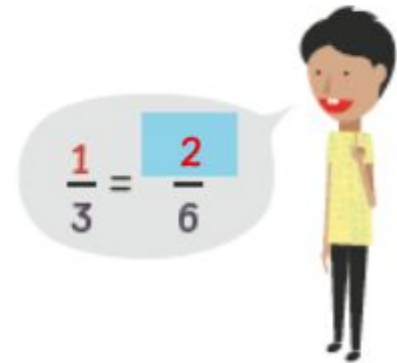
$$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$$

$\frac{1}{2}$, $\frac{2}{4}$ and $\frac{4}{8}$ are equivalent fractions.

They are equal.



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



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

Can you write down even more pairs of equivalent fractions?

Guided Practice

1 Complete each of the following number lines.



2 Show these numbers on the number line.

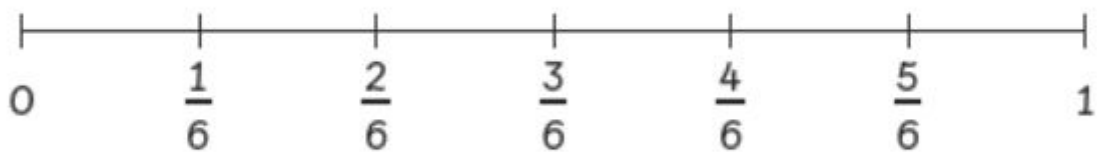
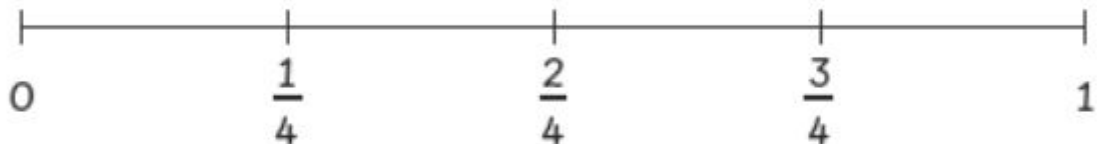
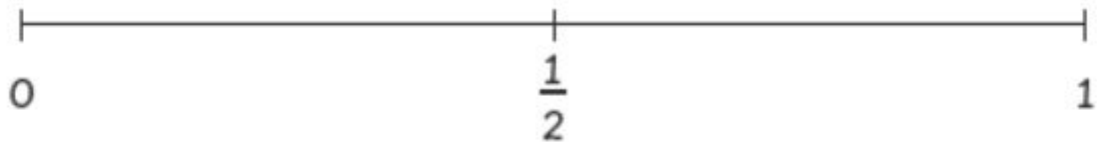


(a) $\frac{5}{8}$

(b) $\frac{3}{4}$

(c) $\frac{1}{2}$

3 Use the number lines to find fractions that are equal.



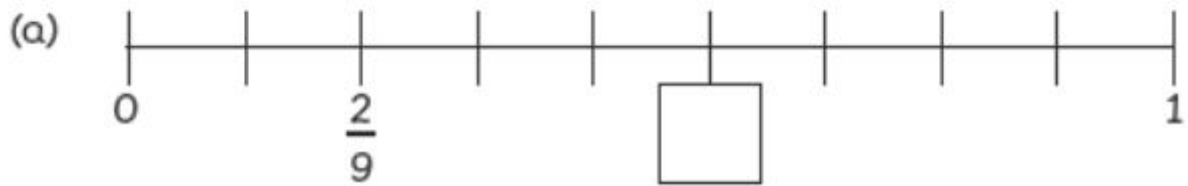
(a) $\frac{1}{3} = \frac{2}{6}$

(b) $\frac{1}{2} = \frac{2}{4} = \frac{3}{6}$

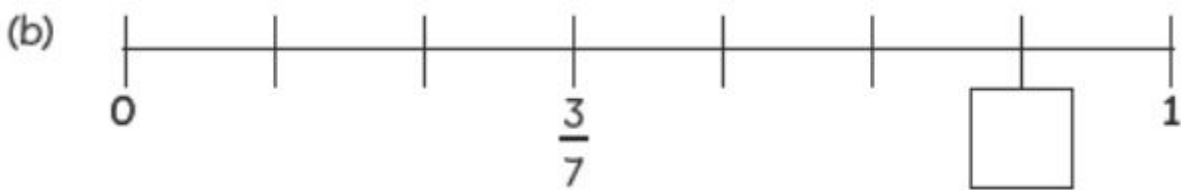
Worksheet 8

Finding Equivalent Fractions

1 Complete each of the following number lines.

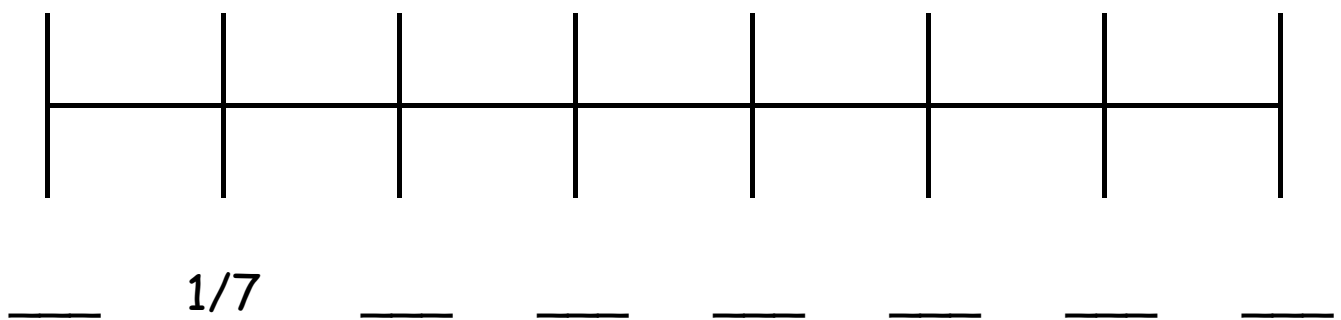


Answer - $\frac{5}{9}$



Answer - $\frac{6}{7}$

2 Label the fractions on the number line.



- a) $\frac{3}{7}$
- b) $\frac{5}{7}$
- c) 1