

Arithmetic

Before you begin, practise your times tables on Time Tables Rockstars for 20 minutes.

Finding Equivalent Fractions

Lesson
7

In Focus



Sam thinks that $\frac{1}{3}$ can be written in other ways.

Is Sam correct?

Let's Learn

Fold a piece of paper into 3 equal parts.
Shade 1 part.



How many parts are shaded? What is the name of each part?



1 part out of 3 equal parts is shaded.

$\frac{1}{3}$ of the paper is shaded.

$$\frac{1}{3}$$

← numerator

← denominator

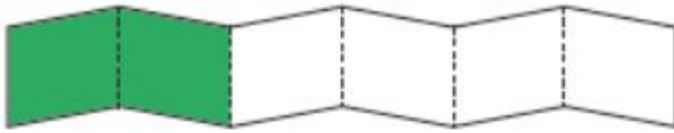


In $\frac{1}{3}$, 1 is the **numerator**
and 3 is the **denominator**.

Are there other
ways to write $\frac{1}{3}$?



Fold the paper again to get 6 equal parts.



2 parts out of 6 equal parts are shaded now.

$\frac{2}{6}$ of the paper is shaded.



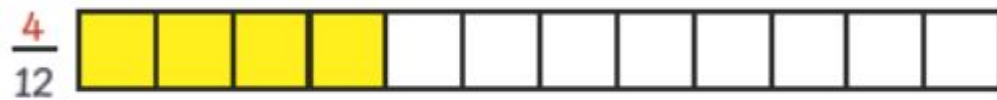
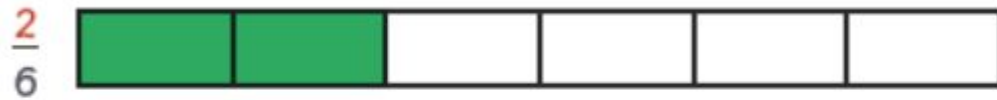
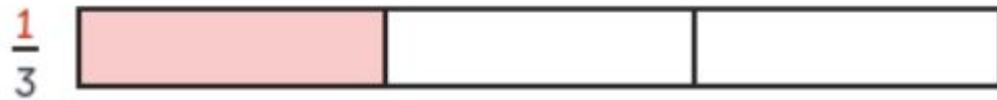
How many parts are shaded?
What is the name of each part?

Fold the paper to get
12 equal parts.



The fractions $\frac{1}{3}$, $\frac{2}{6}$ and $\frac{4}{12}$ have different numerators and denominators.

But they are equal.



$$\frac{1}{3} = \frac{2}{6} = \frac{4}{12}$$

$\frac{1}{3}$, $\frac{2}{6}$ and $\frac{4}{12}$ are equivalent fractions.

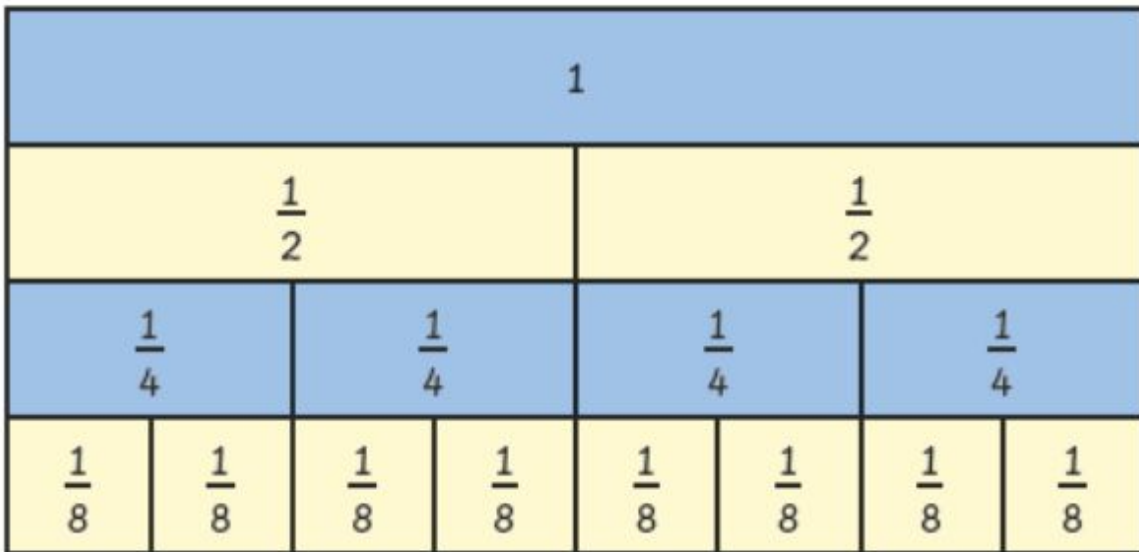
They are equal.

What are other equivalent fractions of $\frac{1}{3}$?
Use to help you.



Guided Practice

1



Look at the diagram.

Find the missing numerators.

(a) $1 = \frac{4}{4}$

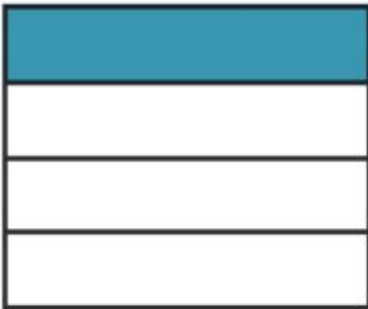
(b) $\frac{1}{2} = \frac{4}{8}$

(c) $\frac{3}{4} = \frac{6}{8}$

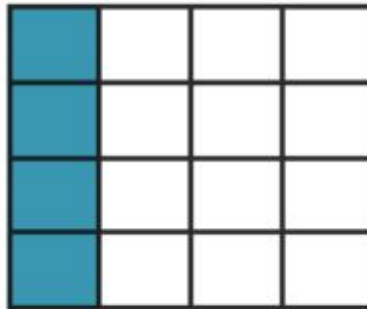
2

The 3 figures are cut into equal parts.

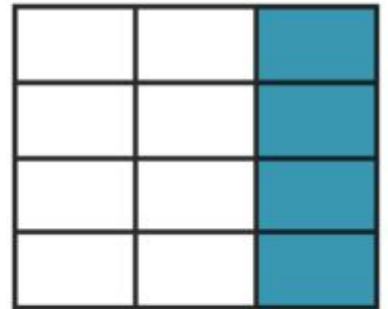
What fraction of each figure is shaded?



$\frac{1}{4}$



$\frac{4}{16}$



$\frac{4}{12}$

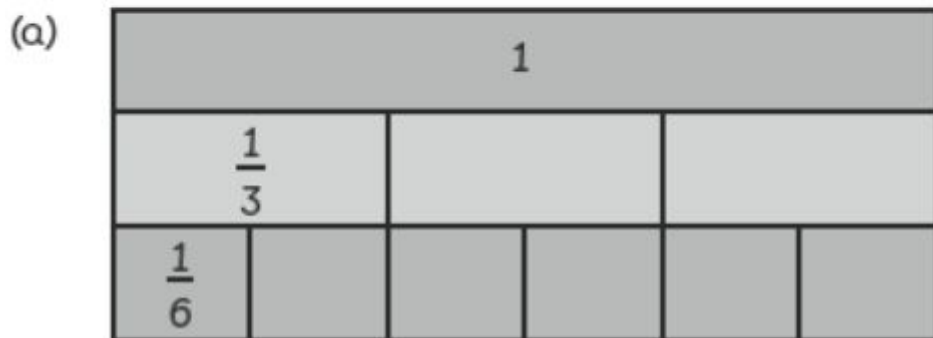
Are the fractions equivalent?

Why or why not? $\frac{4}{16}$ is equivalent to $\frac{1}{4}$

Worksheet 7

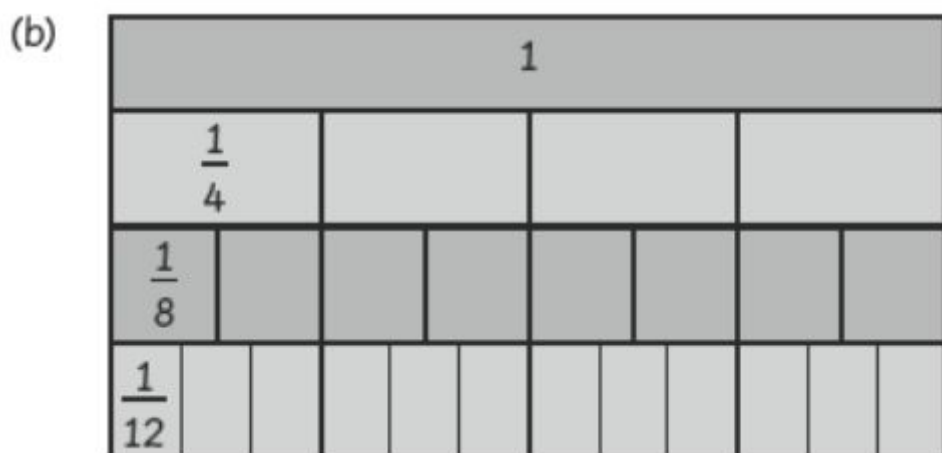
Finding Equivalent Fractions

Look at the diagram and fill in the blanks.



i) $1 = \frac{?}{3}$

ii) $\frac{2}{3} = \frac{?}{6}$



i) $1 = \frac{?}{4}$

ii) $\frac{2}{4} = \frac{?}{8}$

ii) $\frac{2}{4} = \frac{?}{12}$