# Mastering maths

## *Add and subtract fractions using diagrams*

In this activity, we will learn how to add and subtract fractions using diagrams and images.

Let's take a look at these stars to try an addition problem.

There are 6 stars altogether.
We can write this as 6/6, six sixths or one whole group.

3 of them are red.
So 3 out of 6 are red.
We could write this as 3/6 or three sixths.

1 is green.
So, 1 out of 6 is green.
We could write this as 1/6 or one sixth.

2 are yellow.
So, 2 out of 6 are yellow.
We can write this as 2/6 or two sixths.

How many stars are red or green?

We can do an addition to work this out:

$$\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$$

So, four sixths of the stars are red or green.

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Now let's try a subtraction problem.

George has a chocolate bar.

The chocolate bar has eight pieces.

George eats 2 pieces.

What fraction of the chocolate bar is left?

We can use this subtraction calculation to work out what fraction is left.

$$\frac{8}{8} - \frac{2}{8} = \frac{6}{8}$$

George still has 6/8 of the bar left to eat.

Now it's time for you to try some of these yourself.

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What fraction of the stars are yellow or red?

**Answer:** _____

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What fraction of the stars are green or red?

**Answer:** _____

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What fraction of the stars are green or yellow?

**Answer:** _____

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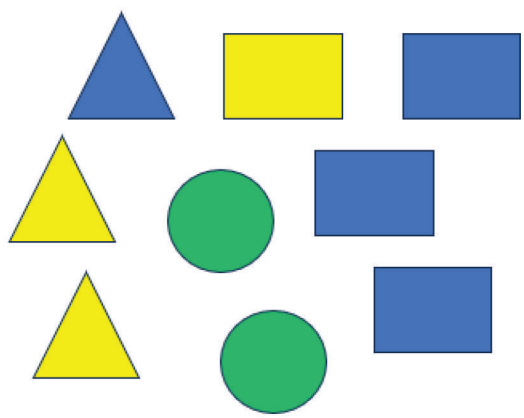
What fraction of the shapes are blue?



**Answer:** _____

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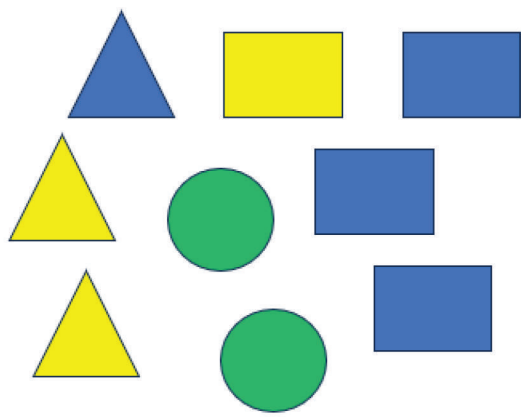
Joe takes all the yellow and blue shapes.

**What fraction of the shapes does he take?**



**Answer:** _____

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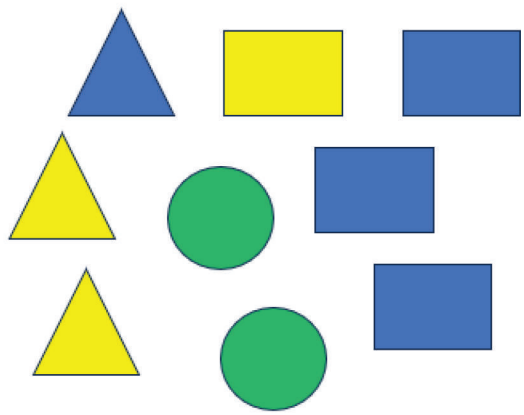
Joe takes all the yellow shapes.

**What fraction of the shapes are left?**



**Answer:** _____

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Chloe and Sarah are sharing some chocolate.
Sarah eats 3 squares.
Chloe eats 4 squares.

**What fraction do they eat altogether?**

**Answer:** _____

Chloe and Sarah are sharing some chocolate.
Sarah eats 3 squares.
Chloe eats 4 squares.

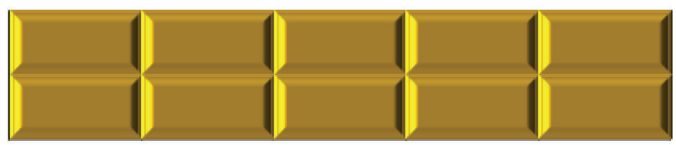
**What fraction is left?**

**Answer:** _____

Carl and Tom are sharing some chocolate.

Carl eats 2 squares.

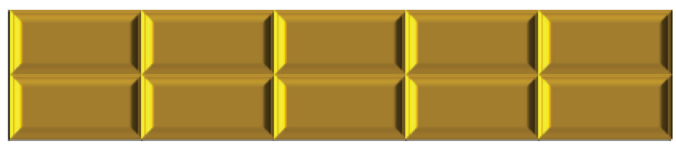
Tom eats 4 squares.



**What fraction is left?**

**Answer:** _____

Carl and Tom are sharing some chocolate.
Carl eats 2 squares.
Tom eats 7 squares.



**What fraction do they eat altogether?**

**Answer:** _____