

14/6/21

You are going to need some strips of paper because this might help you solve our problem today.



### In Focus



Emma

I took 6 sweets.



Elliott

I took twice as many sweets as Emma.

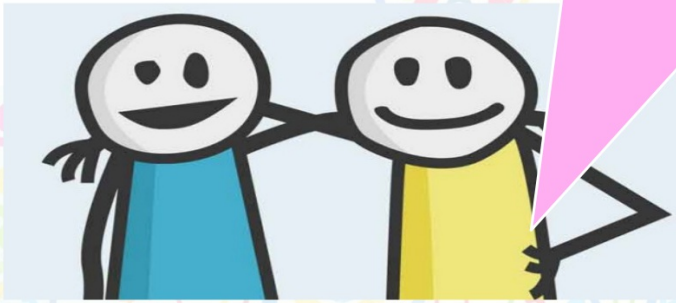


Lulu

I took half as many sweets as Emma.

How many sweets did they take altogether?

It cannot be solved because you don't know how many sweets all of the children took.



Is this true?



### In Focus



Emma

I took 6 sweets.



Elliott

I took twice as many sweets as Emma.



Lulu

I took half as many sweets as Emma.

How many sweets did they take altogether?

How many different parts have we got to work out here to solve the question?

Are there clues to help us?

A decorative border surrounds the central text area, featuring various numbers (0-9), mathematical symbols like percent, and geometric shapes in multiple colors.

I solved the problem using bar models.

A large, empty rectangular box with a black border, intended for drawing a bar model to solve a problem.

Can you do the same?

I am going to give you lots of time to try and solve this.

## Let's Learn

1 How many sweets did Elliott take?



Working out

## Let's Learn

1 How many sweets did Elliott take?

Emma  

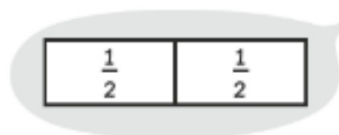
Elliott  

$$2 \times 6 = 12$$

Elliott took 12 sweets.

2

How many sweets did Lulu take?



Working out

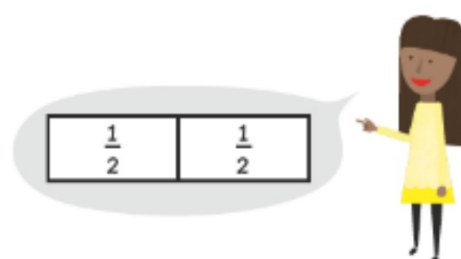


2




How many sweets did Lulu take?



$6 \div 2 = 3$   
Lulu took 3 sweets.



3




	number of sweets
Emma 	6
Elliott 	12
Lulu 	3

Working out



Working out

3

	number of sweets
Emma 	6
Elliott 	12
Lulu 	3




$$6 + 12 = 18$$

$$18 + 3 = 21$$






$$6 + 12 + 3 = 21$$

They took 21 sweets altogether.

 buys 10 cupcakes.  buys  $\frac{1}{2}$  as many cupcakes as  buys.

How many cupcakes does  buy?

 buys 10 cookies.  buys  $\frac{1}{2}$  as many cookies as  buys.

(a) How many cookies does  buy?

(b) How many cookies do  and  buy altogether?

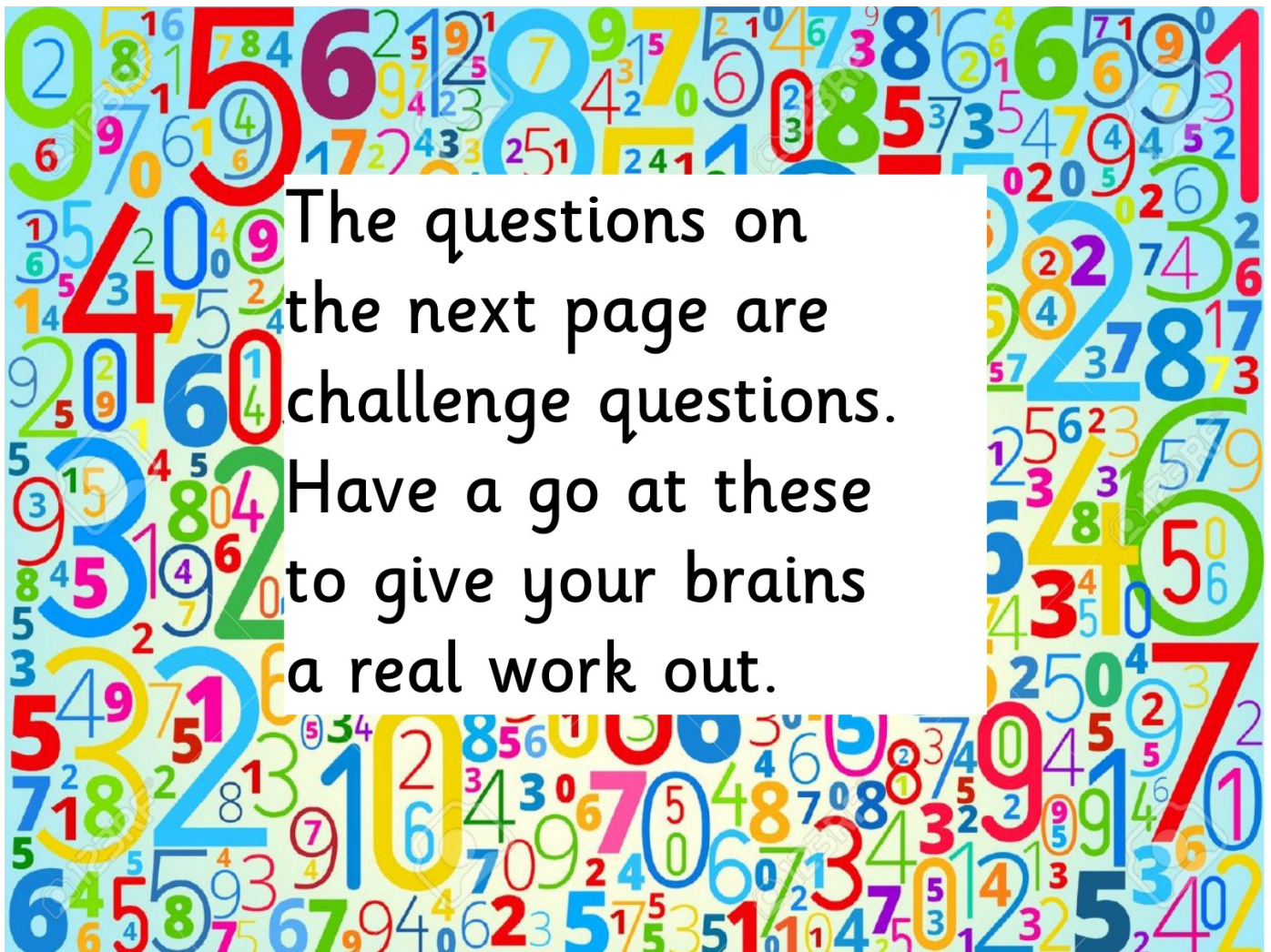
Ravi has  $\frac{1}{2}$  as many  coins as Hannah has.

Hannah has 8  coins.

(a) How many coins does Ravi have?



7 Decide how to solve it then have a go at solving it using any of the practical or pictorial methods that we have explored in school this week.

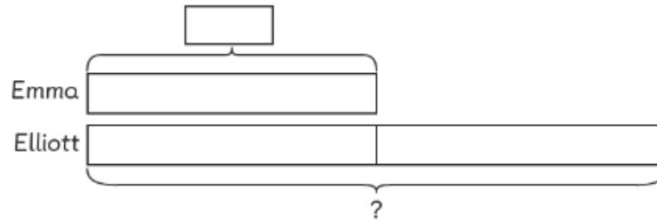
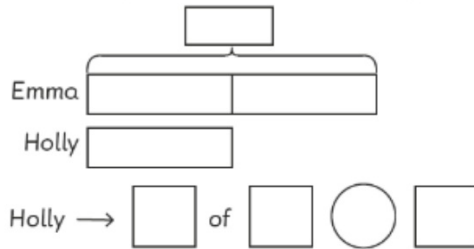


The questions on the next page are challenge questions. Have a go at these to give your brains a real work out.

1 Elliott bought twice as many marbles as Emma bought.

Holly bought  $\frac{1}{2}$  as many marbles as Emma bought.

Emma bought 10 marbles. How many marbles did they buy altogether?



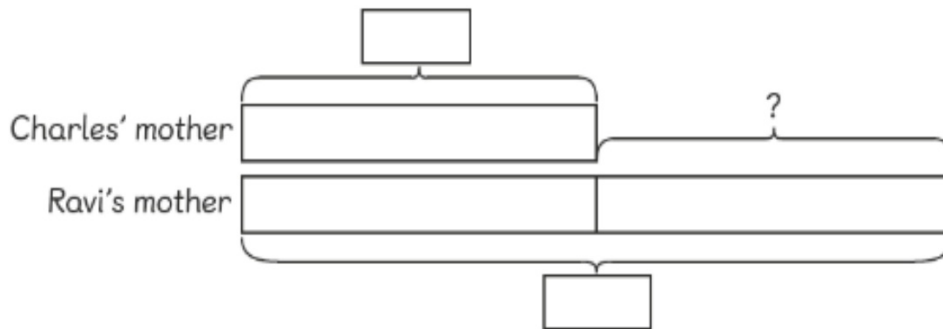
Elliott →  ○  ○

Total →  ○  ○  ○

They bought  marbles altogether.

2 Ravi's mother bought 34 apples. Charles' mother bought  $\frac{1}{2}$  as many apples as Ravi's mother bought.

How many more apples did Ravi's mother buy?



Difference →  of

Ravi's mother bought  more apples than Charles' mother bought.

- 3 Lulu had  $\frac{1}{2}$  as many 20p coins as Amira. Amira had thirty 20p coins.

How many 20p coins did they have altogether?

Lulu →  of

Total →

They had  20p coins altogether.