

1 Aled and Pete plan their outfits.



My outfit needs 12 metres of silk.

$\frac{1}{4}$ of that will be pink,
the rest will be red.



My outfit needs 12 metres of silk.

$\frac{1}{6}$ of that will be purple,
the rest will be red.

Altogether, how many metres of **red** silk should they buy?

metres

To make **one** outfit it takes:

- 1 hour and 15 minutes to cut
- 3 hours and 30 minutes to sew
- 15 minutes to iron.

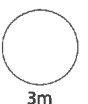
Aled makes **both** outfits.

He must be finished by 6pm.

What is the latest time Aled can start making the **first** outfit?



Start at



TOTAL



2 Power showers use more water than ordinary showers.



Ann's ordinary shower uses
9 litres of water in 1 minute.



Tom's power shower uses
18 litres of water in 1 minute.

Ann showers for 3 minutes. She uses _____ litres of water.

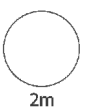
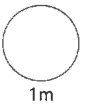
Tom showers for 3 minutes. He uses _____ litres of water.

On another day, Ann showers for 10 minutes.

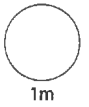
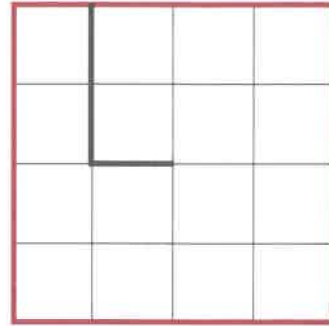
Tom uses the **same** amount of water as Ann.

How long does Tom shower for?

minutes



- 3 Draw more lines to divide the red square into **exactly two parts** that are the **same shape**.



- 4 Small cubes are 2cm high. Big cubes are 5cm high.



Mari stacks cubes on top of each other.

Show different ways she can make a stack 26cm high.

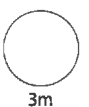
3 small cubes with _____ big cubes

or

_____ small cubes with _____ big cubes

or

_____ small cubes with _____ big cubes

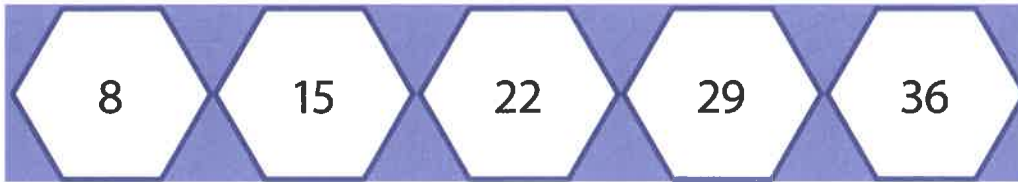


TOTAL

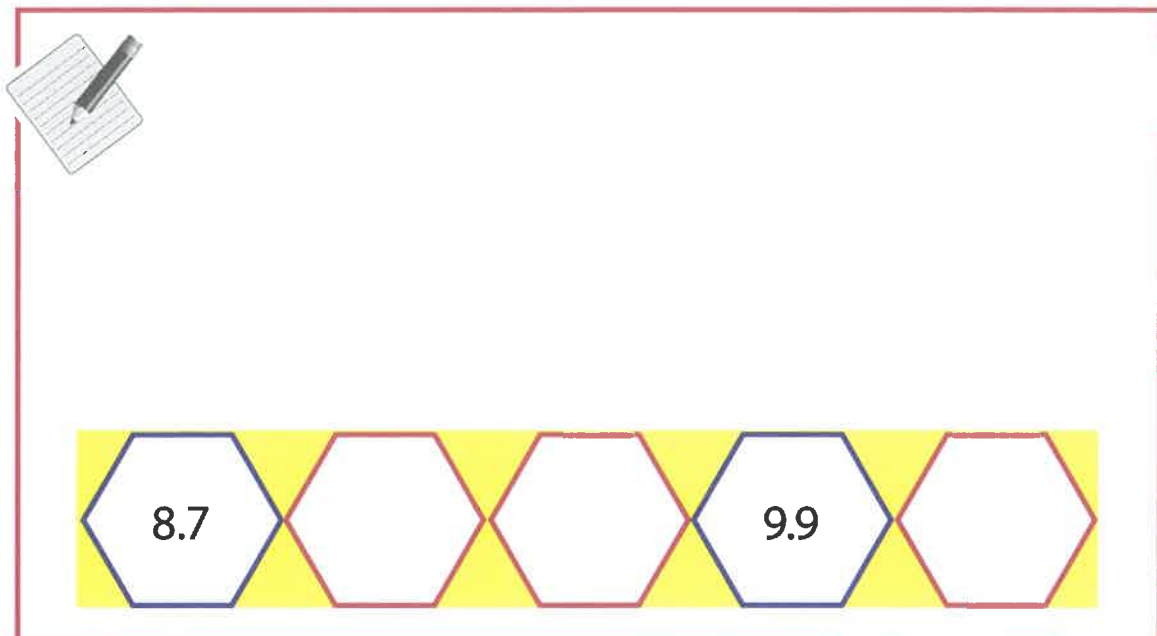
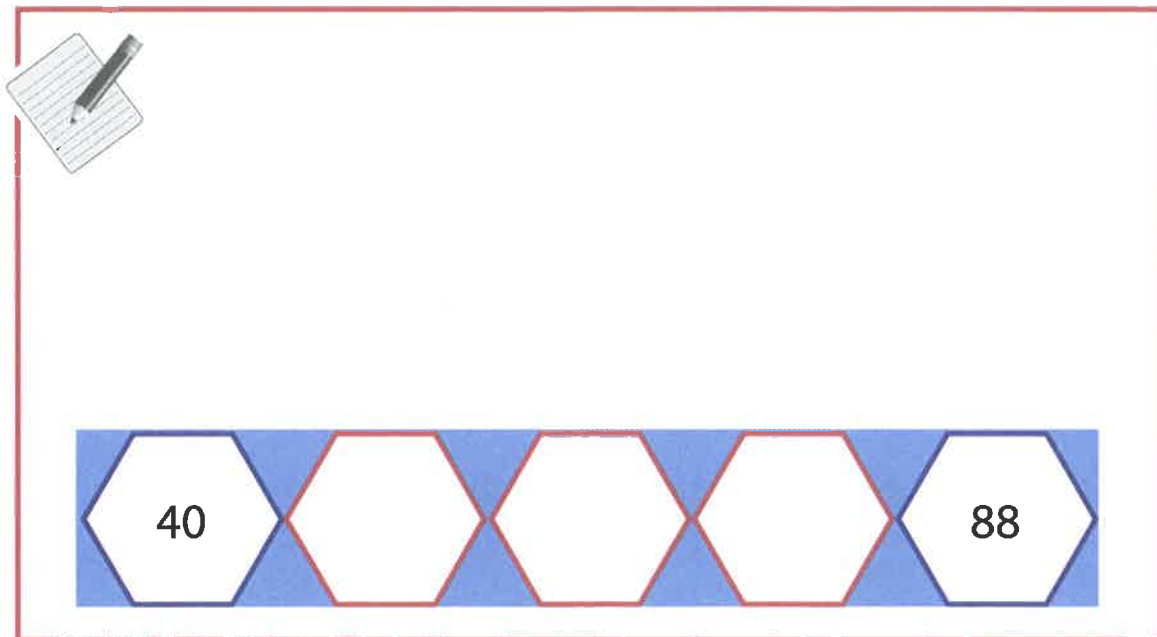


5 The numbers in these three sequences go up in equal steps.

Example:



Work out the missing numbers.



6



1 notepad
£1.15



1 pencil
95p

Lili has £10

She wants **four notepads** and as many pencils as possible.

How many **pencils** can she buy, and how much will be left over?

pencils and left over

4m

TOTAL

7m

1



Dad

I get up first.



Mum

I get up 20 minutes after Dad.



Rhys

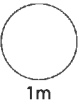
I get up 25 minutes after Mum.

Dad gets up at

6 : 40 am

so Rhys gets up at

: am



They eat cereal.



Rhys

I choose.



Mum

I eat double the amount Rhys eats.

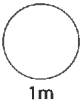


Dad

I eat 10 more grams than Mum.

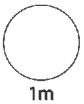
When Rhys eats 50 grams, Dad eats

grams.



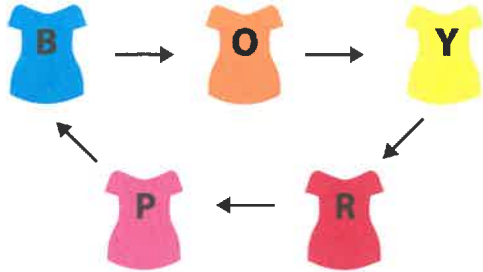
When Dad eats 80 grams, Rhys eats

grams.



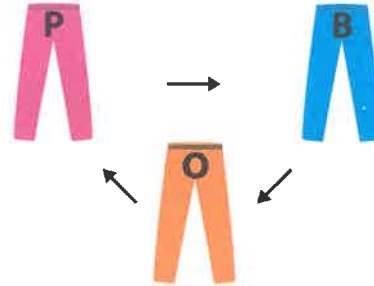
Order for T-shirts:

blue, orange, yellow, red, pink



Order for trousers:

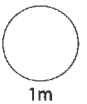
pink, blue, orange



On 5th April Mum wears her blue T-shirt with pink trousers.

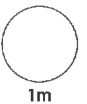
Write the **next two** dates when she wears her **blue T-shirt**.

5th April		
-----------	--	--




Write the **next two** dates when she wears her **pink trousers**.

5th April		
-----------	--	--



Write the next two dates when she wears her **blue T-shirt** with **pink trousers**.

	There are 30 days in April.	
5th April		



TOTAL



2 Tam has

five £1 coins



and

eight 50p coins



Show different ways she can use her coins to pay exactly £3.50

Number of £1 coins	Number of 50p coins
0	7
1	

2m

3



Seven years ago I was 28 years old.

How old will he be in seven years' time?



years old

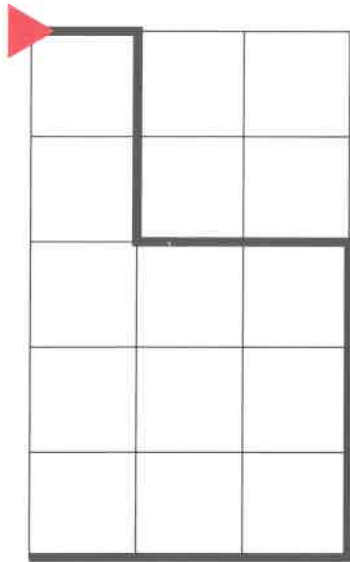
2m

4 A robot moves on a grid.

The black lines  show its path.

Complete the directions to show the robot's path.

Start



Start at , forward 1

turn **right** 90° , forward 2

turn **left** 90° , forward

turn 90° , forward

turn 90° , forward

The robot moves on a bigger grid.

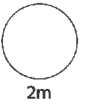
Complete the directions to show the robot's path is a **rectangle**.

Start, forward 20

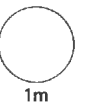
turn **right** 90° , forward 30

turn **right** 90° , forward

turn **right** 90° , forward



2m



1m

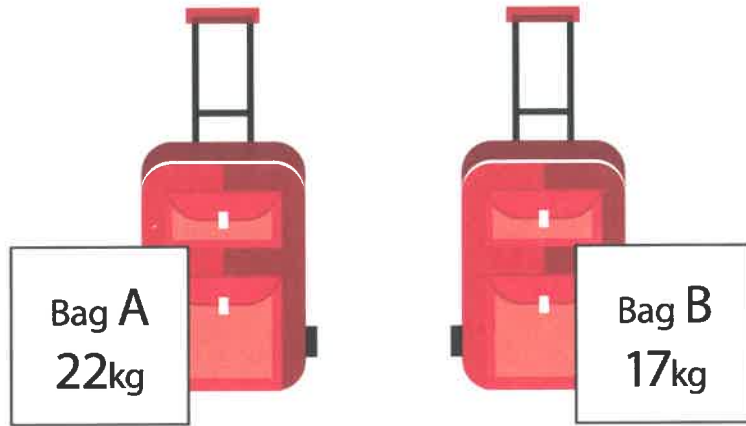
TOTAL



7m

5 Mr and Mrs Hasan are going on holiday.

They pack two bags then weigh them.



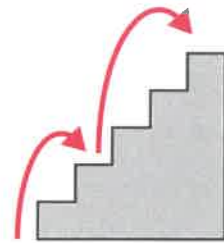
They want the bags to weigh the **same**.

How many kilograms should they move from bag A to bag B?

A large red-bordered box for writing the answer. In the top-left corner, there is a small icon of a notepad with a pen. At the bottom-right corner of the box, there is a smaller red-bordered box containing the word 'kilograms'.

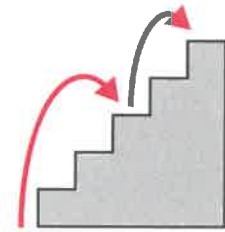
6 Beth always climbs steps 2 at a time or 3 at a time.

There are **two different** ways she can climb 5 steps.



2 steps, then 3

and



3 steps, then 2

There are **more than two** different ways she can climb 9 steps.

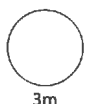
How many different ways are there?

Show how you work it out.



9 steps,
2 at a time or 3 at a time

different ways



TOTAL

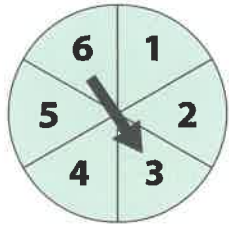


1

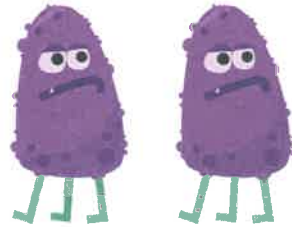
The dice shows **the number of blobimals**.

The spinner shows the **number of legs** for each blobimal.

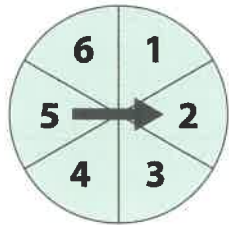
Example:



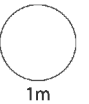
6 legs altogether



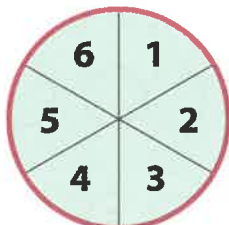
Write the missing number.



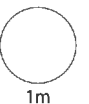
 legs altogether



Show the missing arrow on the spinner.



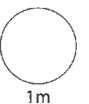
9 legs altogether



Show the missing number on the dice.



30 legs altogether



It is not possible to get 14 legs altogether.

Explain why not.



1m

Is it possible to get these totals for number of legs?

Write **yes** or **no**. If the answer is **yes**, give an example.

Total number of legs	yes or no	Example if yes
14	no	
15	yes	throw 3 and spin 5
16		
17		
18		
19		
20		

3m

TOTAL

7m

2



Granddad



Dad



Beca



Olwen

Granddad is **80** years old.

Dad is **half** Granddad's age.

Beca is **three-quarters** of Dad's age.

Granddad's, Dad's, Beca's and Olwen's ages add up to **159** years.

How old is Olwen?

years old

3 A shop sells these fruits.

Apples



20p
each

Bananas




30p
each

Oranges



50p
each

Mangos



70p
each

Marc bought four fruits. He paid **exactly** £2

Which four fruits could Marc have bought?

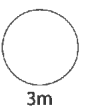
, , ,

or

, , ,

or

, , ,



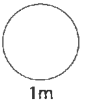
4 Joe thinks of a number, 



$$\triangle \times \triangle + \triangle = 20$$

What is Joe's number?

 =



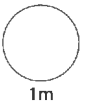
Meg thinks of a different number, 



$$\square \times \square - \square = 20$$

What is Meg's number?

 =



Alun thinks of another different number, 

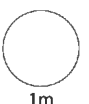


$$\circ \times \circ = \circ + \circ$$

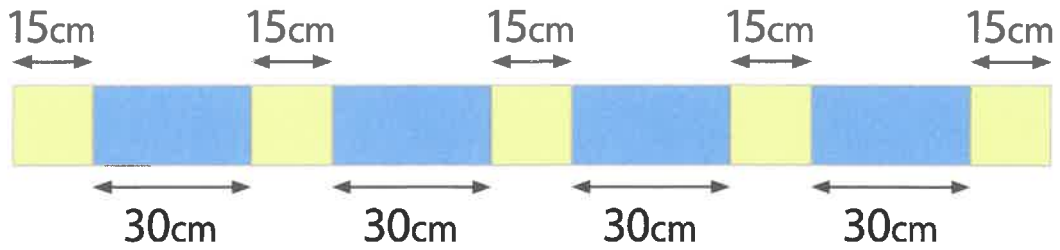
Alun's number could be 0

What else could Alun's number be?

 =



5 Elen wants to knit this scarf.



Elen can knit 40cm with 1 ball of wool.

How many balls of **blue** wool should she buy?

Show how you work it out.

knits 40cm

balls of blue wool

2m

How many balls of **yellow** wool should she buy?

Show how you work it out.

knits 40cm

balls of yellow wool

2m

TOTAL
7m

1 Arwel has 2 cooks.

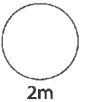
Each cook has 3 helpers.

Each helper has 4 pans.

Altogether, how many pans are there?



pans

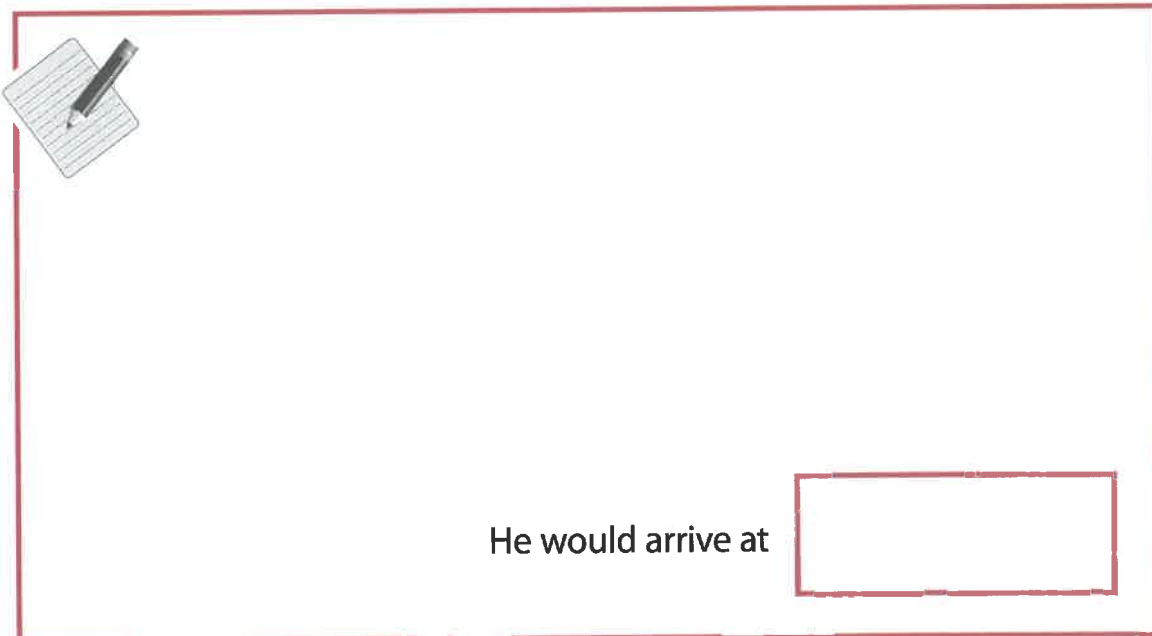


2m

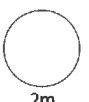
Arwel leaves at 8am.

- Each hour he travels 5 miles.
- Gwen's palace is 30 miles away.

Without the raven's help, at what time would he arrive at Gwen's palace?



He would arrive at



2m

Arwel leaves at 8am.

- Each hour he travels 5 miles.
- Gwen's palace is 30 miles away.

The raven helps!



When you call me I will **double** the distance you have already travelled.

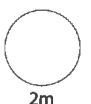


Arwel wants to arrive as quickly as possible.

At what time should he call the raven?



He should call at



TOTAL

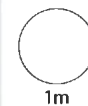


2 Write the missing digits.

$$\begin{array}{|c|c|} \hline 2 & \square \\ \hline \end{array} + \begin{array}{|c|c|} \hline \square & 2 \\ \hline \end{array} = \begin{array}{|c|c|} \hline 4 & 0 \\ \hline \end{array}$$



$$\begin{array}{|c|c|} \hline \square & 3 \\ \hline \end{array} - \begin{array}{|c|c|} \hline 3 & \square \\ \hline \end{array} = \begin{array}{|c|c|} \hline 6 & 0 \\ \hline \end{array}$$




3 A shop sells orange juice.

<div data-bbox="450 1048 790 1232" data-label="Text"><p>Small bottle 95p for $\frac{1}{2}$ litre</p></div> 		<div data-bbox="1029 1048 1364 1232" data-label="Text"><p>Large bottle £1.50 for 1 litre</p></div>
--	---	--

Brad buys 1 litre in small bottles.

Ryan buys 1 litre in one large bottle.

How much more does Brad pay than Ryan?

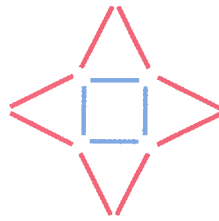


p more

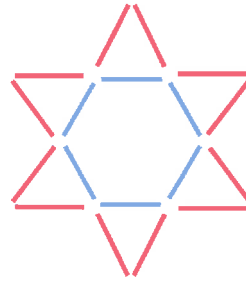


4 Star patterns use 2 red rods with each blue rod.

Examples:



4 blue rods
8 red rods



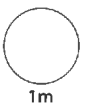
6 blue rods
12 red rods

Poppy makes a star pattern.

She uses 20 red rods.

How many blue rods does she use?

blue rods



Jamal makes a star pattern.

He uses 120 rods altogether.

How many blue rods and red rods does he use?

	blue rods
	red rods



TOTAL



5

Scores in a singing competition				
	Tom	Elain	Mia	
Judge A	4	3	2	9
Judge B	2	2	1	5

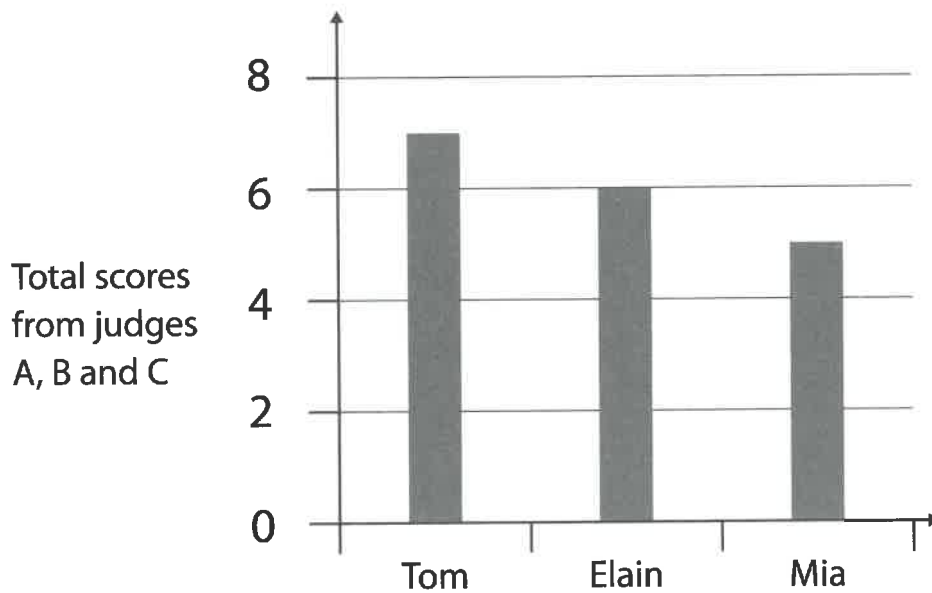
In the table, 4 shows Tom's score from judge A.

In the table, 1 shows

In the table, 9 shows



The chart below shows the **total** scores from judges A, B and also C.



Work out judge C's scores.

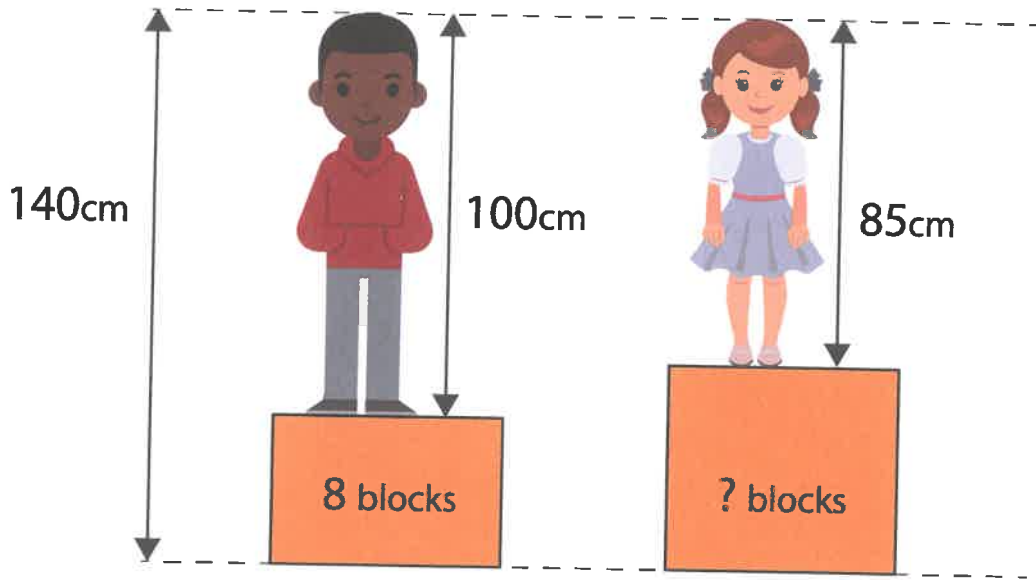
	Tom	Elain	Mia
Judge C			



6 Sam and Meg have lots of blocks that are all the same height.

They stand on some of the blocks.

Now they are both 140cm high.



Not drawn to scale

Sam stands on 8 blocks.

How many blocks does Meg stand on?

Show how you work it out.

A large rectangular box with a red border is provided for the student to show their work. In the top-left corner of the box, there is a small icon of a notepad with a pencil. In the bottom-right corner of the box, there is a smaller rectangular box containing the word "blocks".

3m

TOTAL

7m