

REASONING

7ER14

First name _____

Last name _____

School _____

Class _____

Date of birth ○○ ○○ ○○○○

Date of test ○○ 05 2014

Total score (maximum 20)



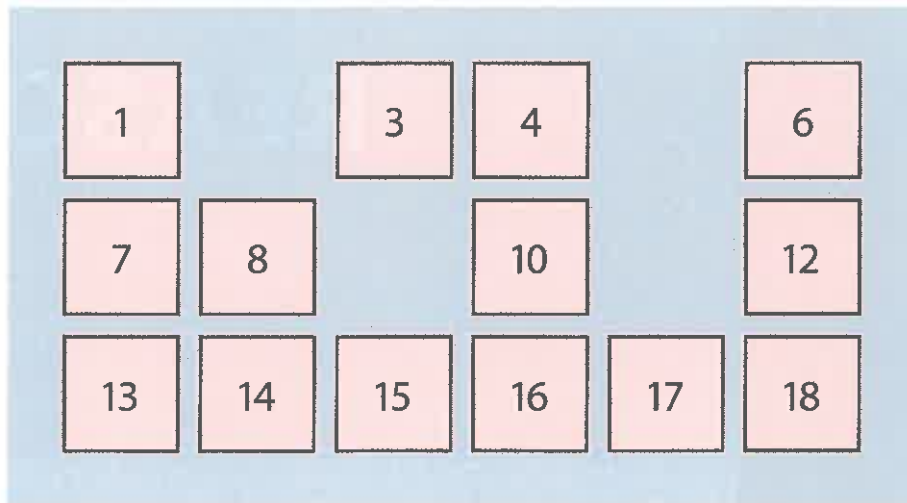
117610



Llywodraeth Cymru
Welsh Government

1

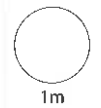
Joe's board →



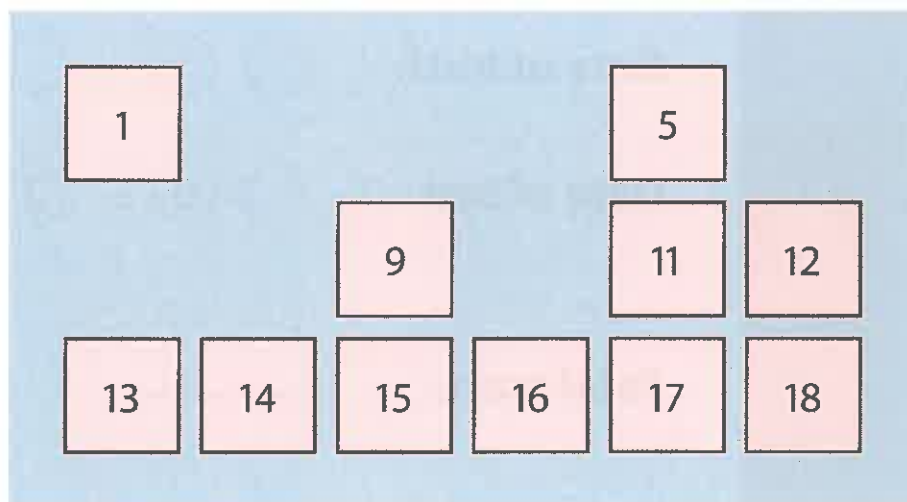
He throws:



Circle all the numbers on his board that he can knock out.

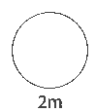


Erin's board →



She is going to throw both dice.

Cross (X) all the numbers on her board that are **not possible** to knock out, whatever she throws.



Lisa says:



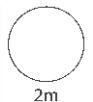
If both dice show **even** numbers, you cannot knock off an **odd** number because ...

- even + even is always an even
- even – even is always an even
- even \times even is always an even
- even \div even is always an even.

One of Lisa's four bullets is **not** correct.

Which one?

Show **why** it is not correct.



2m



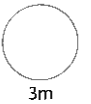
TOTAL

5m

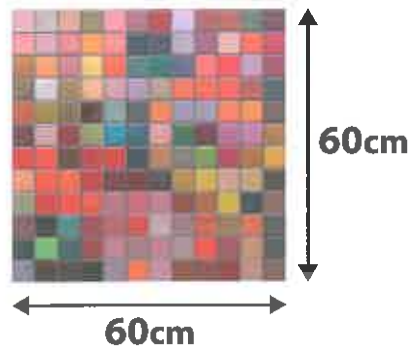
- 2 David wakes up in the night.



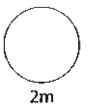
Write **all** the times between **03:30** and **04:30** when the clock shows digits that **add to 9**



- 3 **144** small glass tiles cover a square that is **60cm** by **60cm**.



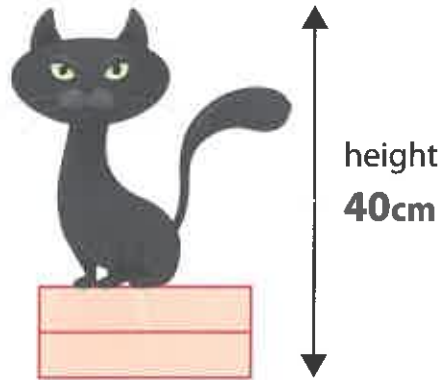
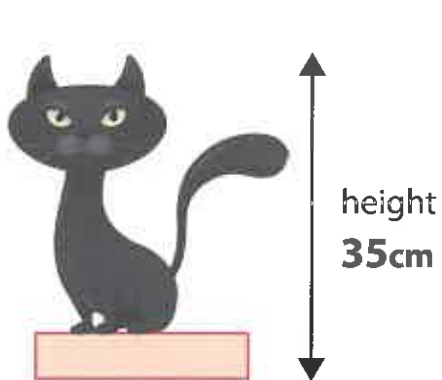
How many small glass tiles will cover a rectangle that is **120cm** by **90cm**?



4

This cat sits on bricks.

All the bricks are the same height.

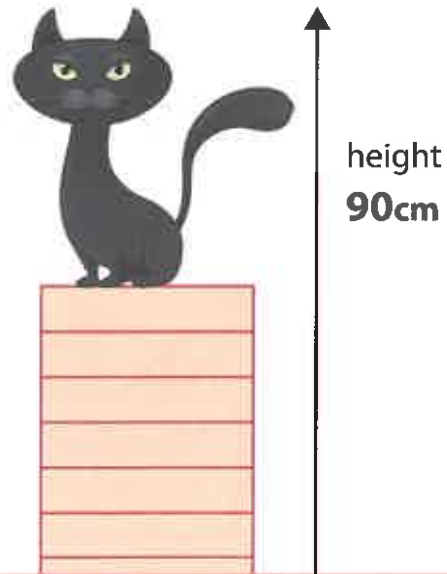


Now the cat sits on more bricks.

You cannot see all the bricks.

The total height is **90cm**.

Work out how many bricks there are.



A large rectangular area with a red border, intended for a student's work. In the top-left corner, there is a small icon of a notepad and a pencil. In the bottom-right corner, there is a smaller rectangular box with the word "bricks" written inside.

4m

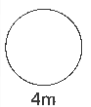
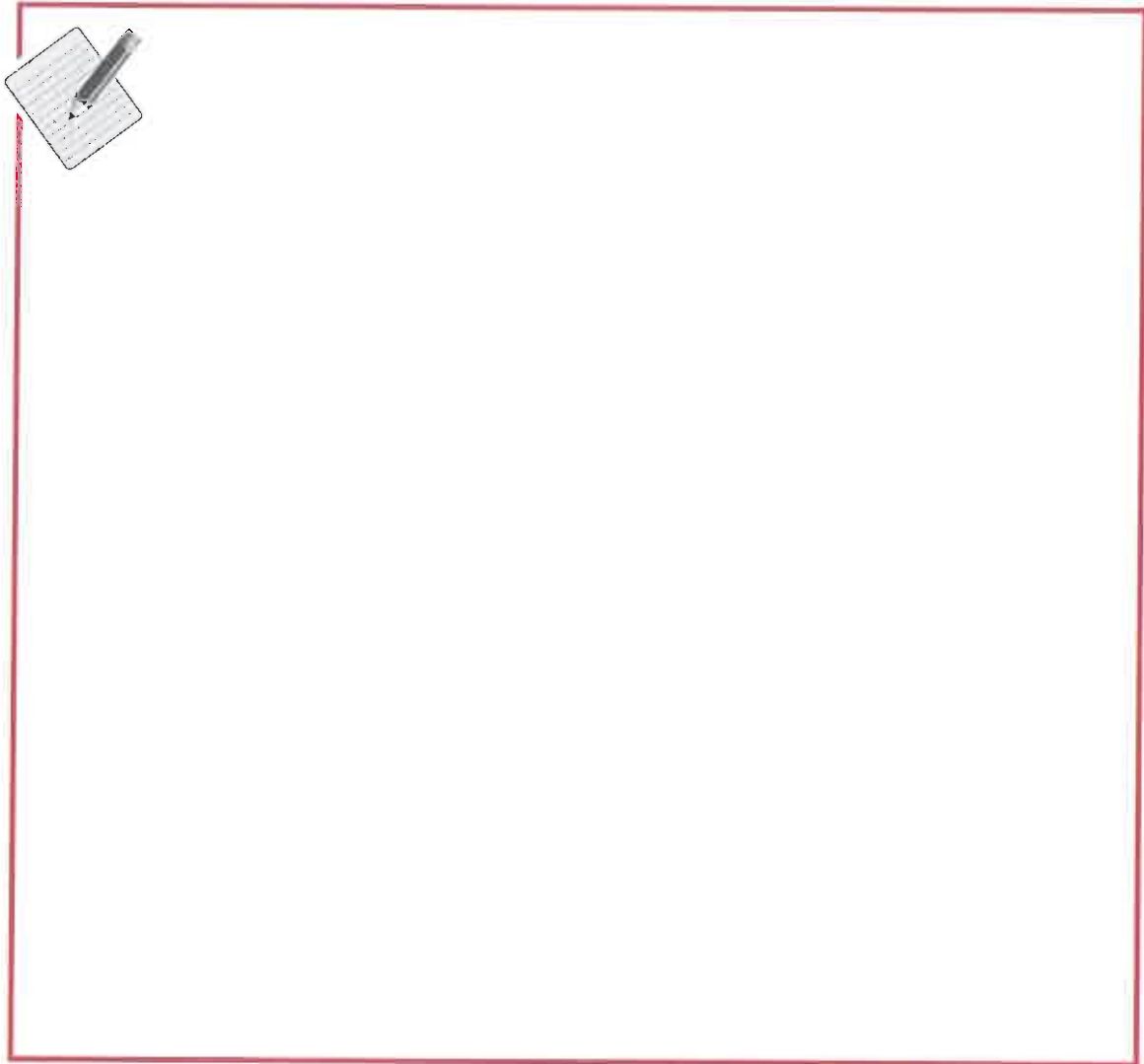
TOTAL
9m

5 Children are planning their school fete.

They will raise money by selling ice creams in cones.



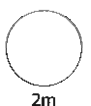
Work out what the children need to buy and the total cost.



4m

They sell all **100** ice creams.

How much profit have they made?



2m

TOTAL



6m