

REASONING

3ER17

First name _____

Last name _____

School _____

Class _____

Date of birth

Date of test

Total score (maximum 20)



150243



Llywodraeth Cymru
Welsh Government

1 Monday:



Each hour, I will **double** how far I fly.

Work out how far he flies in hour 3

hour 1	5km
hour 2	10km
hour 3	km

Tuesday:

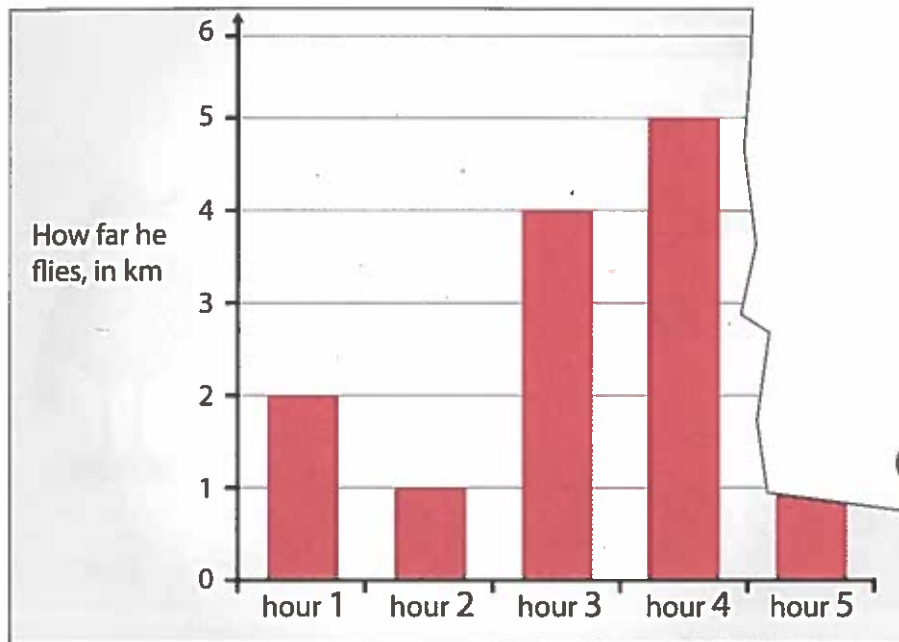


Each hour, I will **double** how far I fly.

Work out how far he flies in hour 1 and hour 2

hour 1	km
hour 2	km
hour 3	24km

- 2 This chart shows how far Wonderpup flies on Friday.



Oh no! Barty has torn the chart. Work out the missing numbers.

In ...

hour 1 he flies

2km.

hour 2 he flies

1km.

From the start that's

3km.

hour 3 he flies

4km.

From the start that's

7km.

hour 4 he flies

km.

From the start that's

km.

hour 5 he flies

km.

From the start that's

16km.

3 Here are four clues to find the house number.

- The number has **3 different** digits.
- There are **no zeros**.
- The digits **add** to 10
- One of the digits is **7**



What could the number be?

There are six different answers.

Use **all four clues** to find them.

or

or

or

or

or



Stop here

- 1 Here is what they ate in April and May.

	Mot ate	Pip ate
April	45 tins	35 tins
May	45 tins	40 tins

Mot ate more tins than Pip. How many more?



more tins

3m

- 2
- 

Mot's tins
50p each
- 

Pip's tins
40p each

4 tins for **Mot** cost the same as ? tins for **Pip**.

What is the missing number? Show how you know.



tins for Pip

3m

3

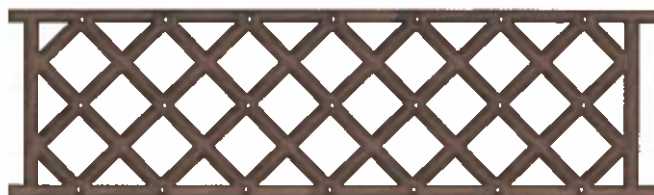


Pip can jump 80cm.



Mot can jump **half** as high as Pip.

This is a fence. Each  is 25cm high.



Can Mot jump to the top of the fence?

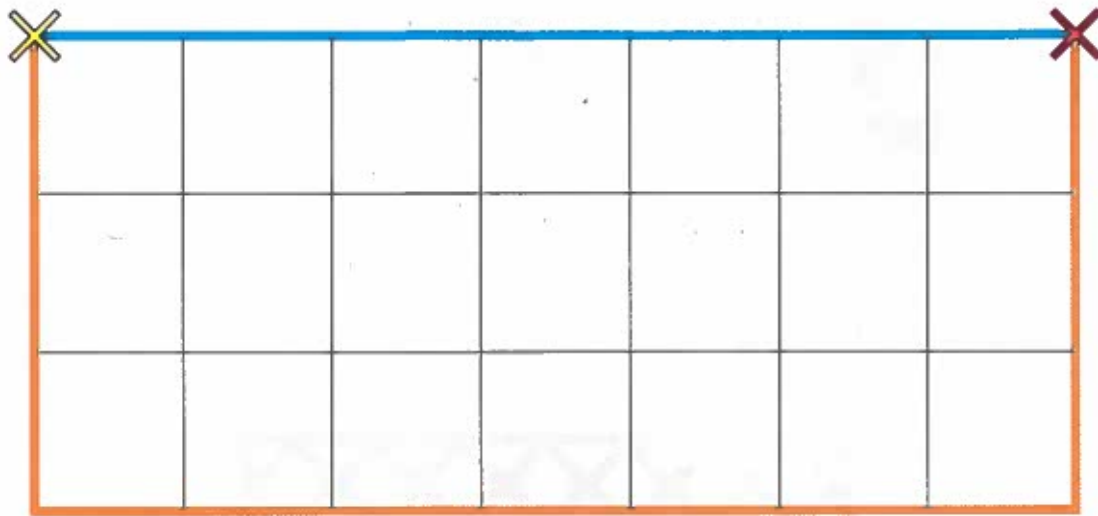
Show how you know.



A large rectangular area with a red border, intended for a student to show their work or reasoning.

- 4 Mot likes walking. Pip doesn't!

The square grid shows their walks.



The blue line shows Pip's walk from X to X

Pip walks 70 metres.

The orange line shows Mot's walk from X to X

How many metres does Mot walk?



metres