

# REASONING

## 3ER16

First name \_\_\_\_\_

Last name \_\_\_\_\_

School \_\_\_\_\_

Class \_\_\_\_\_

Date of birth ○○ ○○ ○○○○

Date of test ○○ 05 2016

Total score  (maximum 20)



139140



Llywodraeth Cymru  
Welsh Government

1

Remember! All chicks have the same colours as their mother.  
Every chick is different.



Can these chicks have the same mother?

Explain how you know.

Area for writing an explanation, containing a small icon of a notepad and pencil.

1m

This mother is red, blue and pink.

Show the six different chicks she can have.

One is done for you.



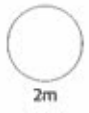
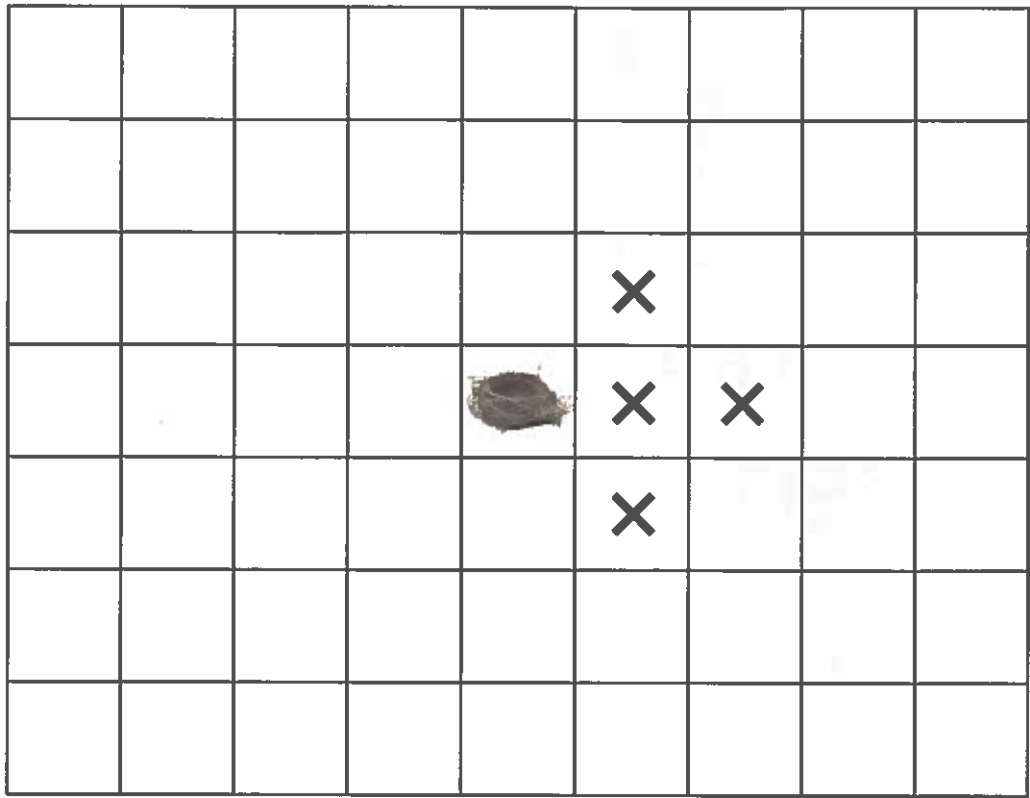
head	body	wings
red	blue	pink

3m

2



on the map shows the Ono nest.



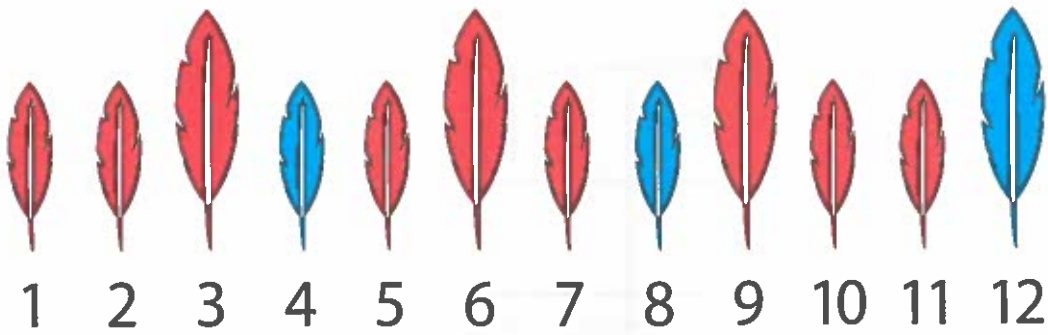
Tents must be **more than 2 squares** away from the nest.

Count →, ←, ↑, ↓, but **not** diagonally.

Draw crosses **X** to show which squares must **not** have a tent.

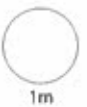
Some are done for you.

3 These feathers make number patterns.



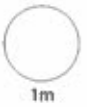
**Big** feathers are 3, 6, 9, 12

The **next big** feather will be number



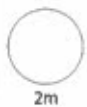
**Blue** feathers are 4, 8, 12

The **next blue** feather will be number





12 is both big and blue.



What number will the **next** feather be that is **both big and blue**?



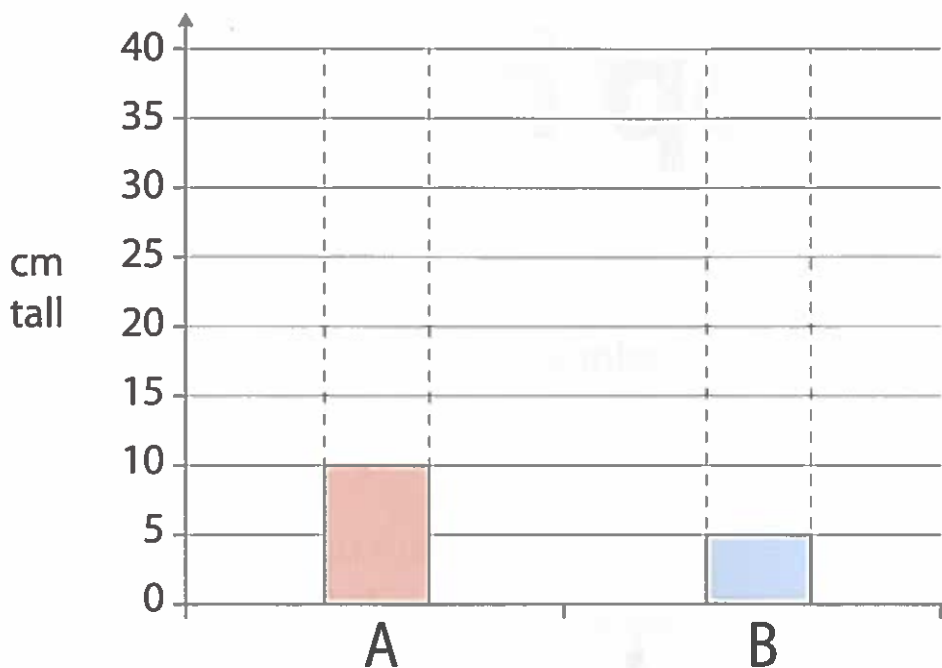
**Stop here**

1

beanstalk A grows	
	10cm each hour
	5cm each hour

beanstalk B grows	
	5cm each hour
	0cm each hour

The chart shows how tall the beanstalks are at 9 o'clock.



From 9 o'clock to 10 o'clock it is **sunny**.

From 10 o'clock to 11 o'clock it is **cloudy**.

On the chart, show how tall the beanstalks are at 11 o'clock.





3 Jack has 120 gold coins.

He gives **half** of them away to help other people.



**Each year** he needs these gold coins:



2 coins for his mother



2 coins for Jack



1 coin for the cow

For how many years will his gold coins last?

years