

# REASONING

## 3ER18

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

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

School \_\_\_\_\_

Class \_\_\_\_\_

Date of birth ○○ ○○ ○○○○

Date of test ○○ 05 2018

Total score  (maximum 20)



165069



Llywodraeth Cymru  
Welsh Government

1



My rules:

- a full bag has 5 teeth
- the last bag does not need to be full.

On Monday night the fairy collects 30 teeth.

She uses  bags.

On Tuesday night the fairy collects 17 teeth.

She uses  bags.

On Wednesday night the fairy uses 2 bags.

How many teeth could she have collected?

or  or  or  or



2



Leave 3p for each tooth.



On Thursday night the fairy leaves 24p.

How many teeth does she collect?

teeth

1m

On Friday night the fairy leaves 30p.

Oh no!

She only has 6 teeth for the king.

How many teeth has the fairy lost?

teeth

2m

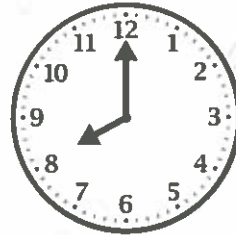
TOTAL

7m

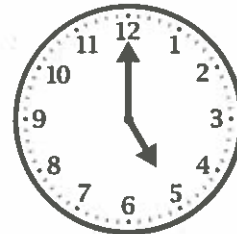
3 On Saturday the fairy cleans teeth.



She starts cleaning in the **morning** at



She finishes cleaning in the **afternoon** at



Each tooth takes  $\frac{1}{4}$  of an hour.

How many teeth does she clean?

Show how you work it out.

teeth

# Stop here

TOTAL



3m

1 The goats change fields **every day**.


A → B → A → ...



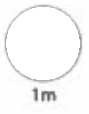
On Monday they were in **B**.

**Next week** on Monday will they be in **A** or **B**?

Show how you know.




A large empty rectangular box with a red border, intended for writing the answer to the question above.



There are **30** days in June.

For how many days will the goats be in each field?



A large empty rectangular box with a red border, containing a writing prompt and two input fields.




A  days

B  days

**30** days altogether



2 All the goats eat some food.

Big	Middle	Little
		
I eat the <b>most</b> .	I eat <b>less</b> than Big.	I eat <b>less</b> than Middle.

The goats share 10 bags. They could have:

Big	Middle	Little
7	2	1

 so 10 bags altogether

or

Big	Middle	Little

 so 10 bags altogether

or

Big	Middle	Little

 so 10 bags altogether

or

Big	Middle	Little

 so 10 bags altogether

3m

TOTAL



6m

3

Each day the goats share **10** bags of food.

Each day the donkey has **5** bags of food.




Farmer Jones needs food for the **goats and donkey**.

He has **41** bags of food.

Is that enough for **3** days?

Show how you know.



A large rectangular box with a red border, intended for writing the solution to the problem. In the top-left corner, there is a small icon of a notepad with a pencil.



Next week Farmer Jones has **90** bags of food.

For how many days will this feed the **goats and donkey**?



A large rectangular box with a red border, intended for writing the solution to the problem. In the top-left corner, there is a small icon of a notepad with a pencil. In the bottom-right corner, there is a smaller rectangular box with a red border containing the word "days".

