

REASONING

4ER18

First name _____

Last name _____

School _____

Class _____

Date of birth

Date of test

Total score (maximum 20)



165080



Llywodraeth Cymru
Welsh Government

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.

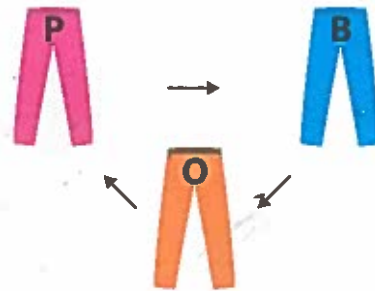
Order for T-shirts:

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

1m

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

5th April

1m

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



There are 30 days in April.

5th April

2m

TOTAL

7m

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

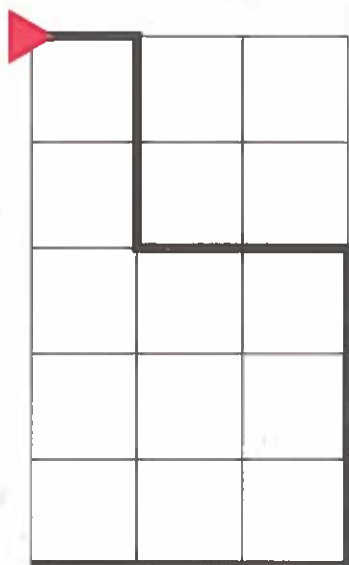
2m

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

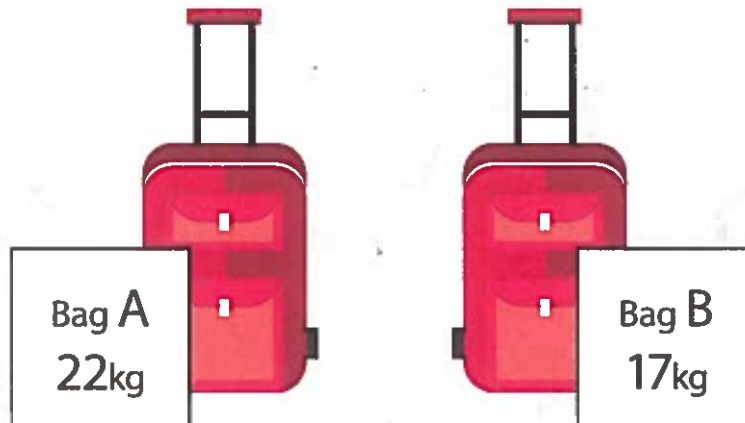


7m

5

Mr and Mrs Hasan are going on holiday.

They pack two bags then weigh them.



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

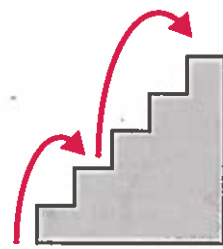
How many kilograms should they move from bag A to bag B?



kilograms

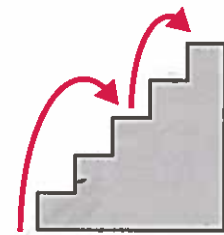
- 6 Beth always climbs steps 2 at a time or 3 at a time.

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



3m

TOTAL



6m