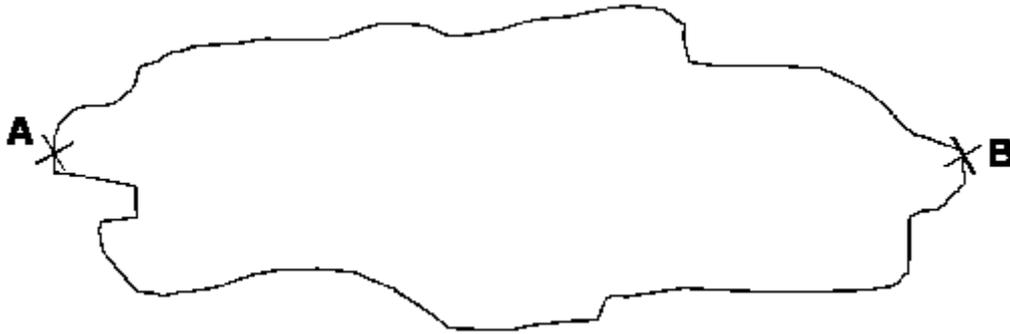


Q1. This is a scale drawing of a pond.

Scale
1cm to 2m



(a) **Use a ruler** to measure the distance across the drawing from A to B

_____ *1.8 cm* cm

1 mark

(b) **Use the scale** to work out the **actual distance** across the pond from A to B.

_____ *3.6 m* m

1 mark

Q2.



Sapna and Robbie have some biscuits.

Altogether they have **14** biscuits.

Sapna has **2 more** biscuits than Robbie.

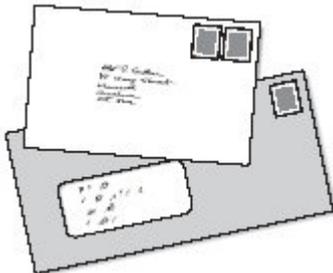
How many biscuits do Sapna and Robbie each have?

Sapna **Sapna**

Robbie

1 mark

Q3. Two letters have a total weight of **120 grams**



One letter weighs **twice as much** as the other.

Write the weight of the **heavier** letter.

g

1 mark

Q4.

A gardener plants tulip bulbs in a flower bed.

She plants 3 red bulbs for every 4 white bulbs.

She plants 60 red bulbs.



How many **white** bulbs does she plant?



Show your method

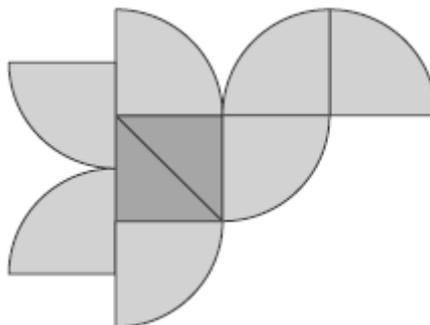
2 marks

Q5.

Joe has some triangular tiles and some quarter-circle tiles.



He uses 2 triangles and 7 quarter-circles to make this 'flying bird' design.



Joe makes some more of these 'flying bird' designs.

He uses 56 quarter-circles.

How many **triangles** does he use?



2 marks

Q6.



Sapna makes a fruit salad using bananas, oranges and apples.

For every one banana, she uses 2 oranges and 3 apples.

Sapna uses 24 fruits.

How many **oranges** does she use?



2 marks

Q7. Mari is the presenter of a weekly radio show.



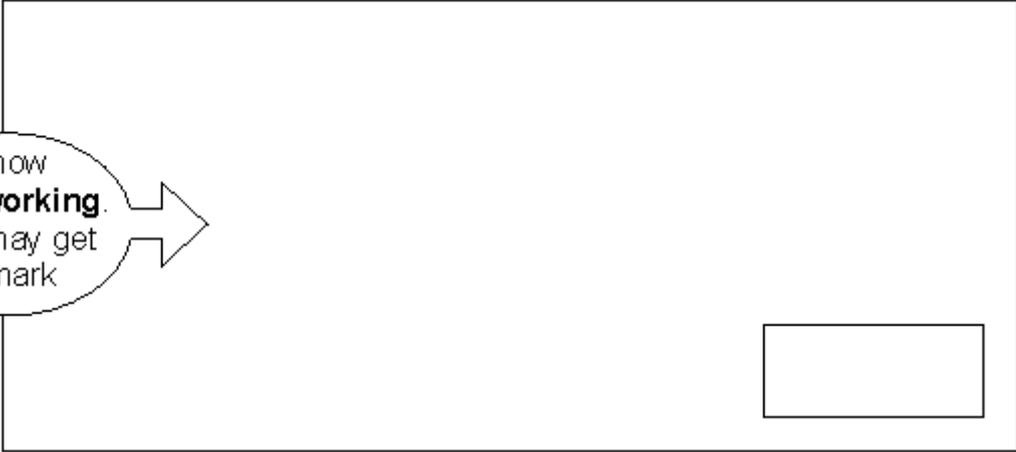
She plays **five** new songs for every **two** old songs.

Last week she played 15 **new** songs.

How many songs did she play **altogether**?



Show your **working**.
You may get a mark



2 marks

Q8. Here is a recipe for raspberry ice cream.

raspberry ice cream for 8 people
$\frac{1}{2}$ litre of cream
1kg raspberries
250g sugar



This recipe is for **8 people**.

Josie makes enough raspberry ice cream for **12 people**.

How much **cream** does she use?

		litre
--	--	-------

1 mark

Fred makes raspberry ice cream in the same way.

He uses **2½ kg** of raspberries.

How much **sugar** does he use?

 Show your **working**. You may get a mark 

	g
--	---

2 marks

Q9.



Every **100g** of brown bread contains **6g** of fibre.

A loaf of bread weighs 800g and has 20 equal slices.

How much fibre is there in **one** slice?

Show your **working**.
You may get a mark

g

2 marks

Q10.



30 children are going on a trip.

It costs £5 including lunch.

Some children take their own packed lunch.

They pay only £3

The 30 children pay a total of £110

How many children are taking their own packed lunch?

Show your **working**.
You may get a mark

children

2 marks

Q11. Look at this information.

Tom was born in 1988
Ben was born in 2000

Tom and Ben have the **same birthday**.

The ratio of Tom's age to Ben's age on their birthday in **2001** was **13 : 1**.

What was the ratio of Tom's age to Ben's age on their birthday in **2003**?

Write the ratio in its **simplest form**.

 :

1 mark

In what year was the ratio of Tom's age to Ben's age **3 : 1**?



Show your working

2 marks

Q12. A recipe for fruit squash is

<i>oranges (chopped)</i>	<i>300 g</i>
<i>lemonade</i>	<i>1500 ml</i>
<i>orange juice</i>	<i>750 ml</i>
<i>makes enough for 6 people</i>	

Trina wants to make enough squash for **10 people**.

How many millilitres of **lemonade** will she need?



Show your **working**.
You may get a mark

ml

2 marks

Brian is using **2 litres of orange juice** and follows the same recipe.

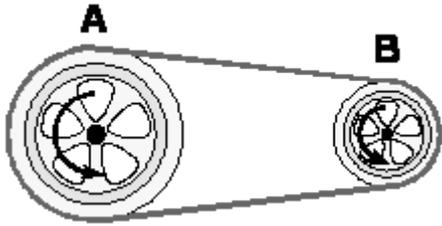
How many people is this enough for?



Show your **working**.
You may get a mark

2 marks

Q13. A and B are two chain wheels on a bike.



For every **2 complete turns** that wheel A makes, wheel B makes **5 complete turns**.

If wheel A makes **150 turns**, how many turns will wheel B make?

	→	
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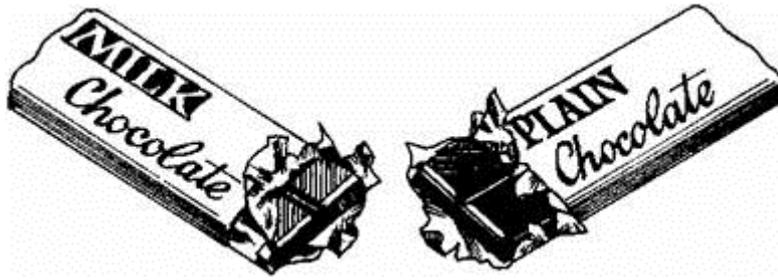
1 mark

If wheel B makes **90 turns**, how many turns will wheel A make?

	→	
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1 mark

Q14.



In a survey, the **ratio** of the number of people who preferred **milk chocolate** to those who preferred **plain chocolate** was **5 : 3**

46 more people preferred milk chocolate, to plain chocolate.

How many people were in the survey?



Show your **working**.
You may get a mark



2 marks