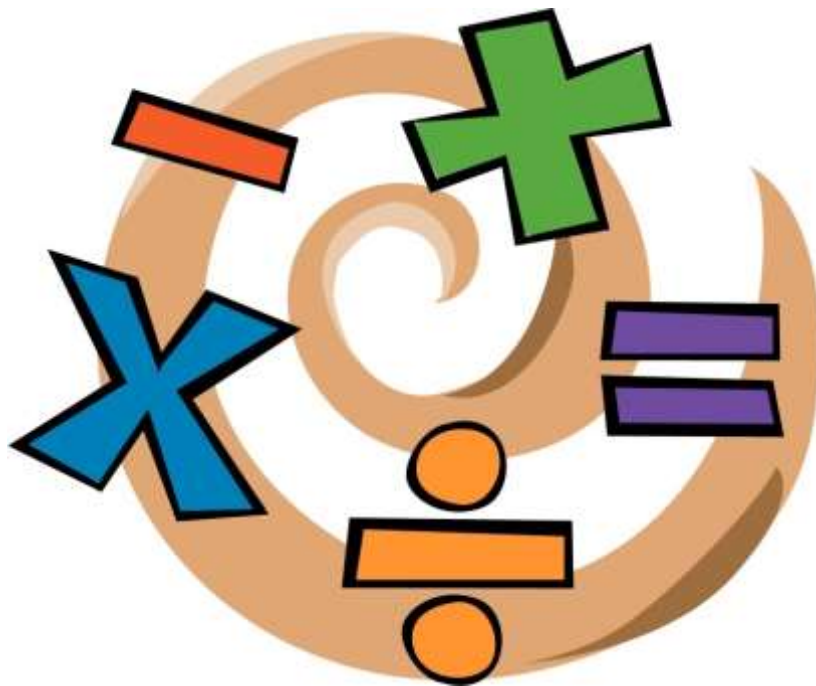


# Word Problems

## SEQUENCES + SCALES



Name.....

Q1. Write the missing number in the sequence

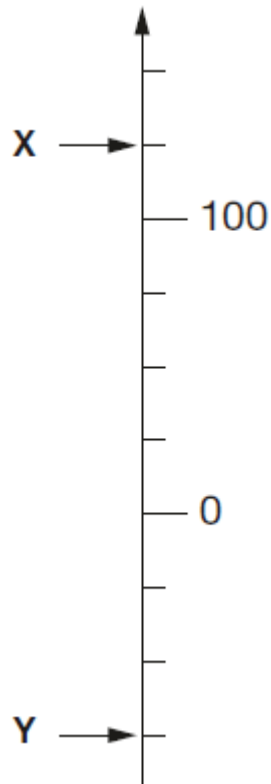
273 001

283 001

293 001

2 marks

Q2. Here is part of a number line.



What is the value of X?



X =

1 mark

What is the value of Y?



Y =

1 mark

**Q3.** The numbers in this sequence increase by 3 each time.

3      6      9      12    ...

The numbers in this sequence increase by 5 each time.

5      10     15     20    ...

Both sequences continue.

Write a number **greater than 100** which will be in **both** sequences.



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

2 marks

**Q4.** Dev says,

***'When you halve any number that ends in 8 the answer always ends in 4'.***



Is he correct?

Circle **Yes** or **No**.

*Handwritten mark* Yes / No

Explain how you know.

*Handwritten mark*

1 mark

**Q5.** The numbers in this sequence increase by the same amount each time.

Write in the missing numbers

*Handwritten mark*

1			13
---	--	--	----

1 mark

**Q6.** The numbers in this sequence increase by 10 each time.

3      13      23      ...

The sequence continues in the same way.

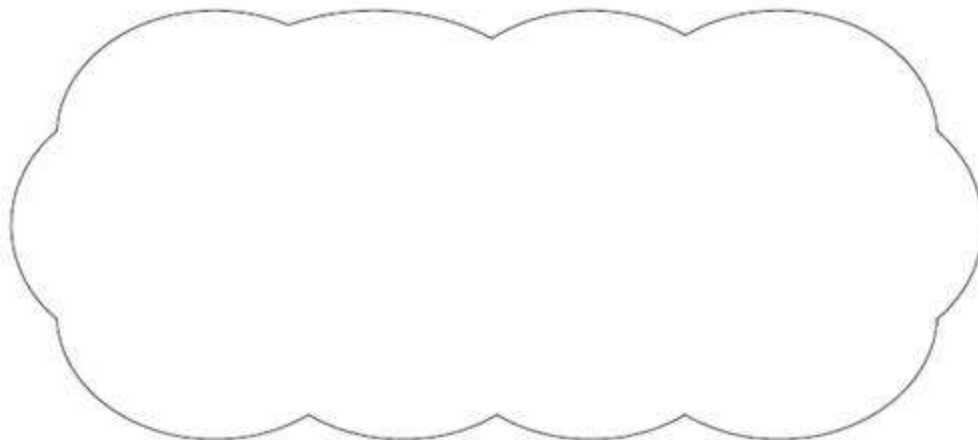
Write **two** numbers from the sequence that add to make a total of **96**



and

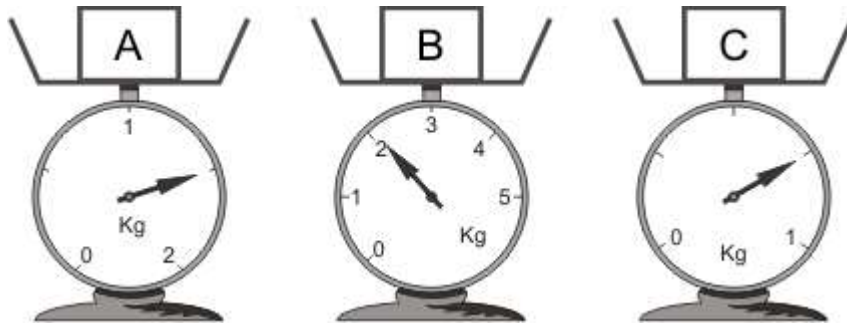
1 mark

Explain why it is **not** possible to find **three** numbers from the sequence that add to make a total of **96**.



1 mark

Q7. Look at the parcels on the scales.



Write them in order, starting from the lightest.

lightest

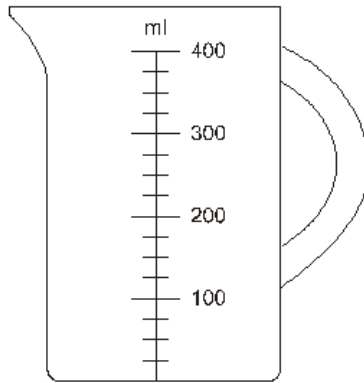
1 mark

**Q8. Cake mix**

Raj is making a cake.

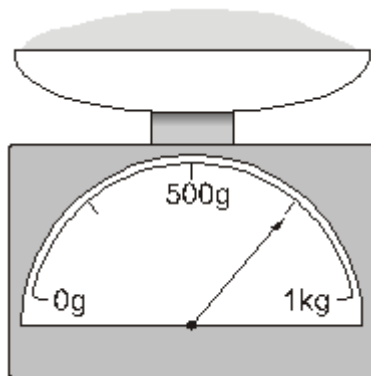
He pours 275ml of milk into a jug.

- (a) Draw a line on the jug to show the level of milk.



1 mark

- (b) The scales below show how much flour he uses.



How much flour does Raj use?



..... g

1 mark

- (c) Raj put the cake in the oven at 4:00pm.

He took the cake out of the oven after  $1\frac{1}{2}$  hours.

At what time did he take the cake out of the oven?



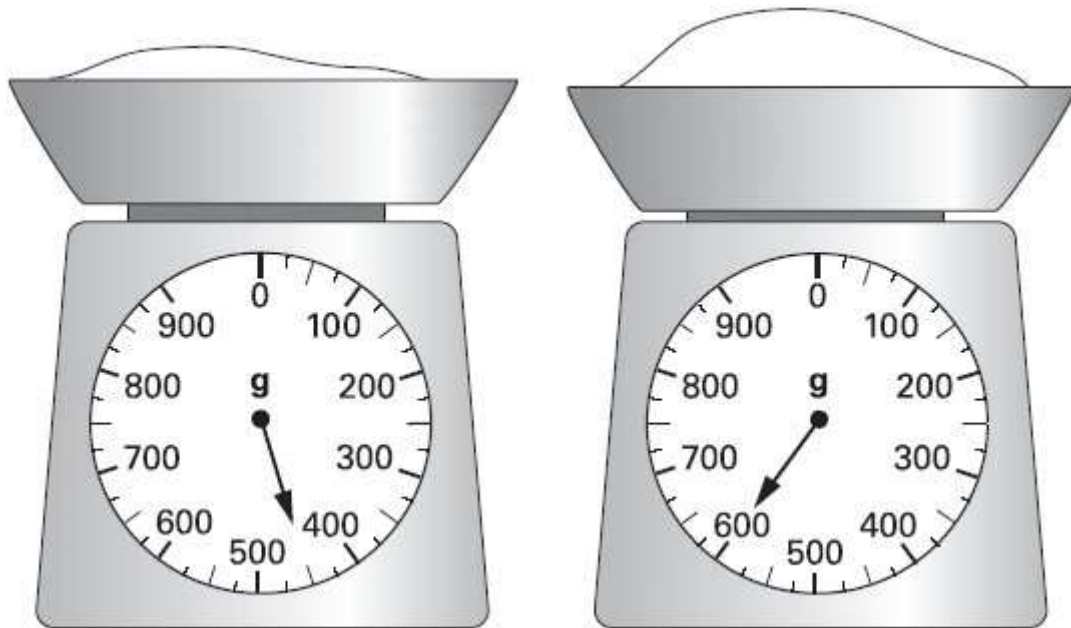
..... pm

1 mark

**Q9.** Emily is making a cake.

She puts flour on the scales.

She then adds sugar to the flour.



How much sugar does she add?

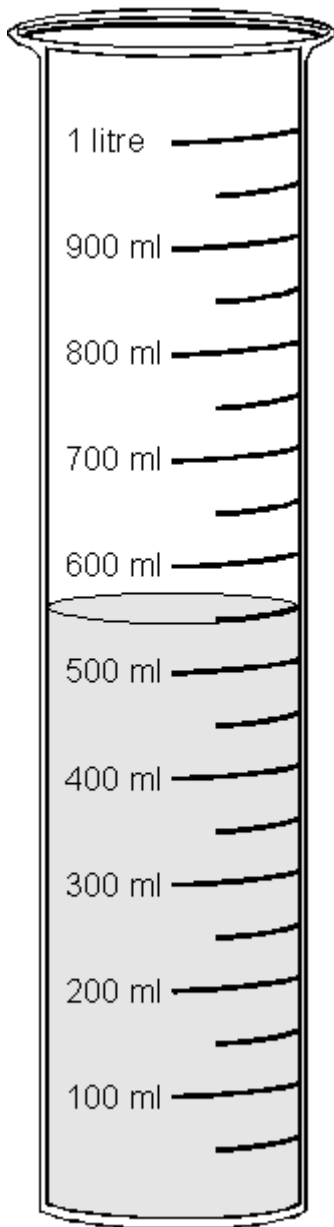
 Show your **working**. You may get a mark 

g

2 marks



**Q10.**



**ml → millilitre**

How much water is in this container?

ml

1 mark

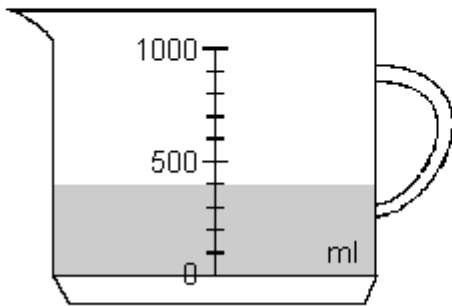
How much more water is needed to make 1 litre?

ml

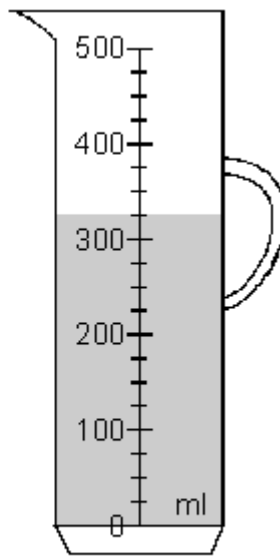
1 mark

**Q11. Measuring jugs**

The diagram shows the volume of water in two measuring jugs.



Jug **A**



Jug **B**

Which jug contains **more** water?

Tick (✓) A or B.



A

B

**How much more** does it contain?

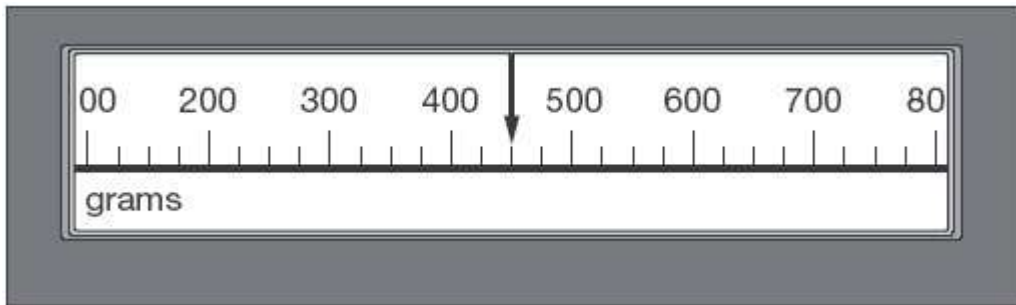
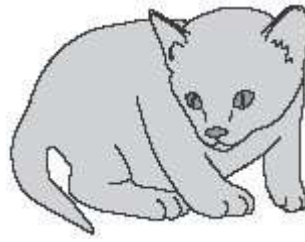
Show your working.



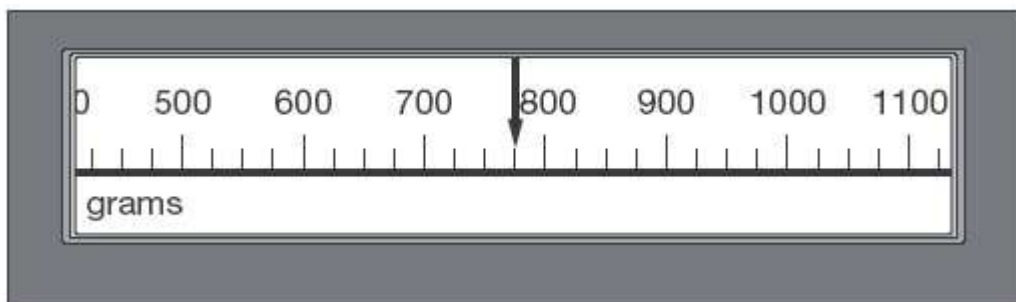
Show your **working**.  
You may get a mark

**2 marks**

**Q12.** This scale shows the mass of Amy's kitten when it was one month old.



This scale shows the mass of the kitten when it was two months old.



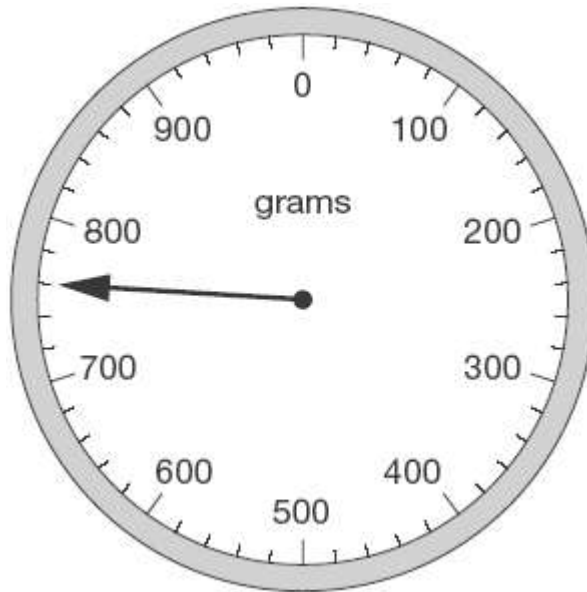
What is the increase in mass?

g

1 mark

**Q13.** Joe places some apples on a weighing scale.

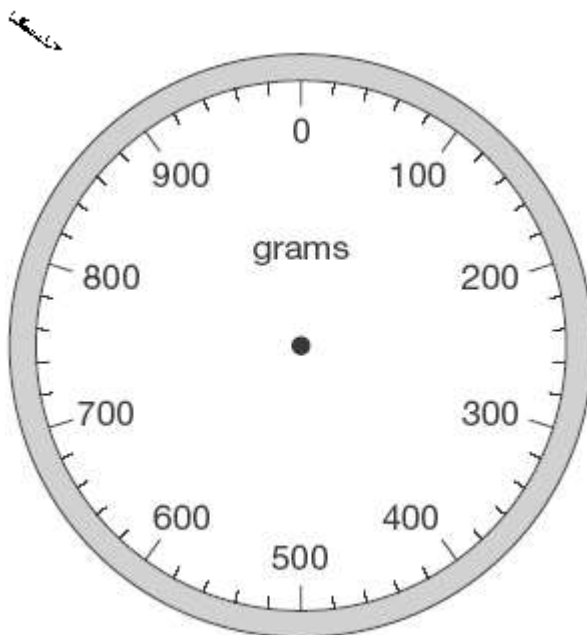
The pointer shows the mass of the apples.



He takes away one apple.

The mass goes down by 120 grams.

Draw the pointer in its new position on the scale below.



1 mark

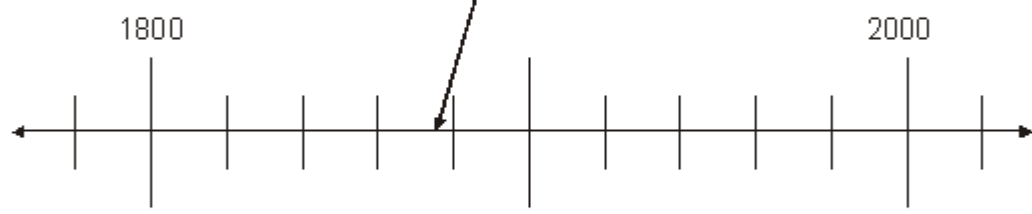
**Q14.** Here is part of a time line.

Draw a line from each invention to the correct point on the time line.

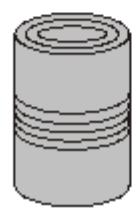
One has been done for you.




1876  
telephone



1810  
tin can



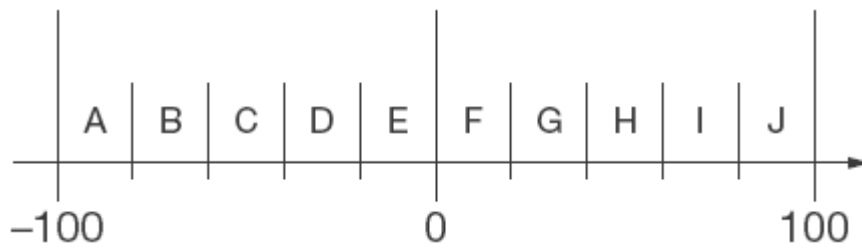
1945  
computer



2 marks

**Q15.** Here is part of a number line.

It is divided into equal sections.



Write the letter of the section where each of these numbers belongs.

The number 99 has been done for you.

number	section
99	J
29	
-83	
-15	
44	

2 marks