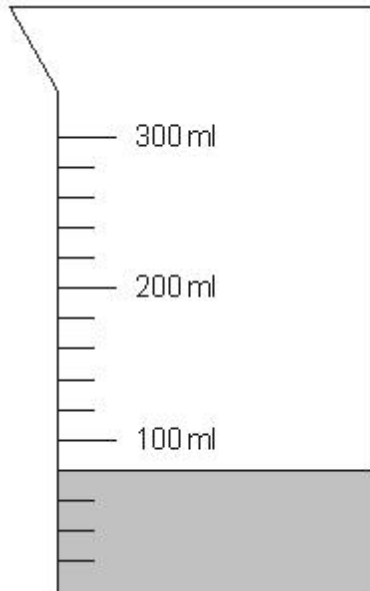


**Q1.**

Hassan has a jug with some water in it.

He adds another 140 millilitres of water.

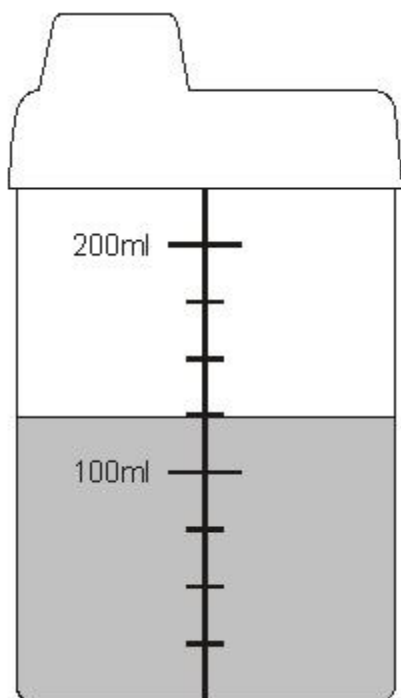
Draw a line to show the new level of water.



1 mark

**Q2.**

Here is a baby's drinking cup.



How many millilitres of water are in the cup?

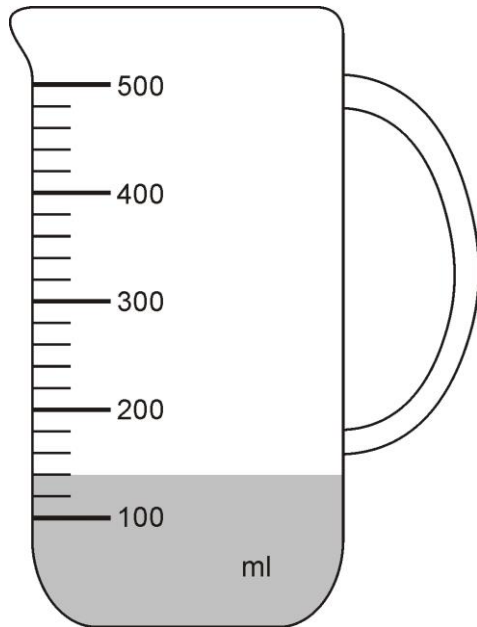
 ml

1 mark

**Q3.**

Mr Khan makes a blackcurrant drink for a party.

He pours blackcurrant squash into a jug.

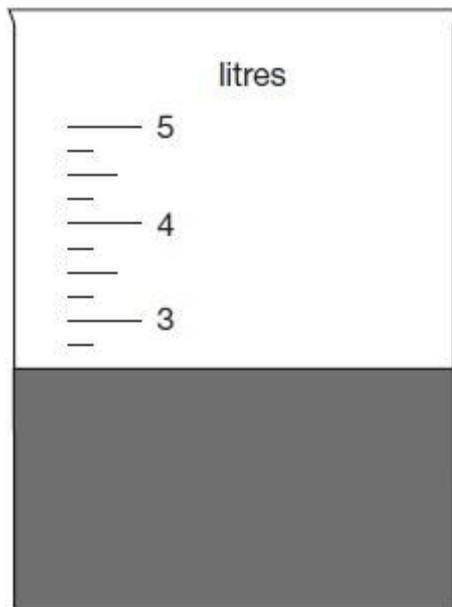


How much water must he add to make **500 millilitres** of drink?

1 mark

**Q4.**

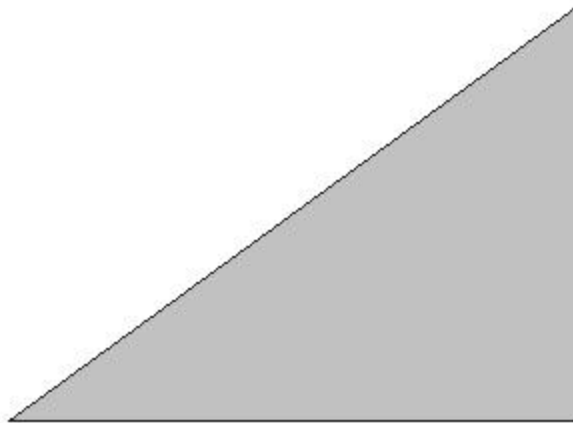
Jack pours some dark paint into a container.



In litres, how much paint is in the container?

1 mark

**Q5.**



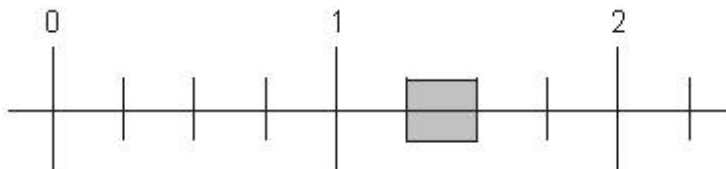
Measure accurately the length of the **shortest** side of this triangle. Write your answer in centimetres.

<b>cm</b>
-----------

1 mark

**Q6.**

Part of this number line is shaded.



Circle **all** the numbers below that belong in the shaded part of the number line.

1.1

1.4

$1\frac{1}{3}$

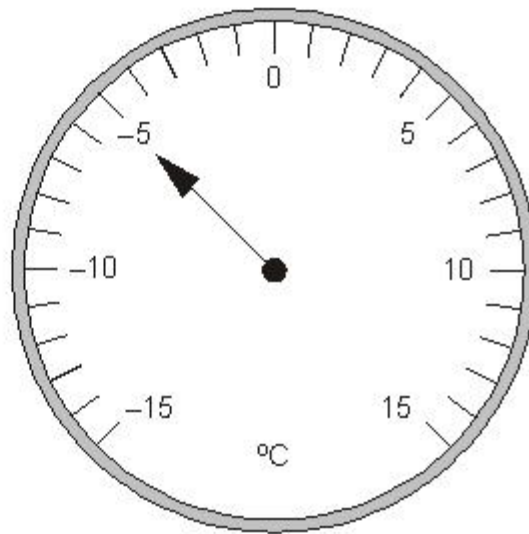
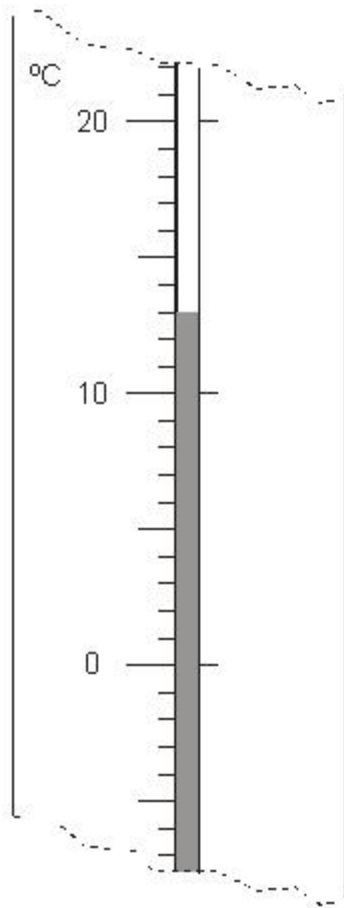
$1\frac{1}{5}$

1 mark

**Q7.**

Here are two thermometers.

They show two different temperatures.



What is the **difference** between the two temperatures?

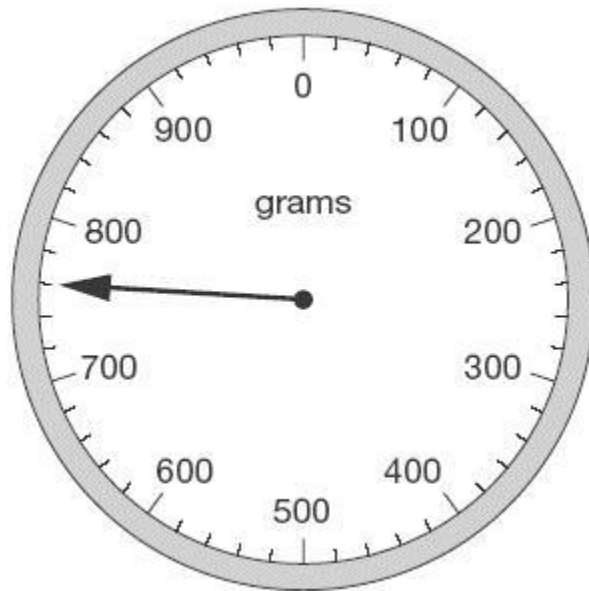
**degrees**

1 mark

**Q8.**

Joe places some apples on a weighing scale.

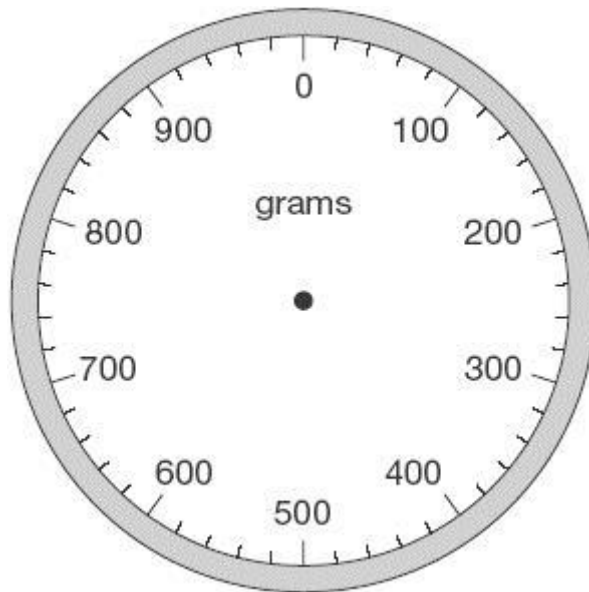
The pointer shows the mass of the apples.



He takes away one apple.

The mass goes down by 120 grams.

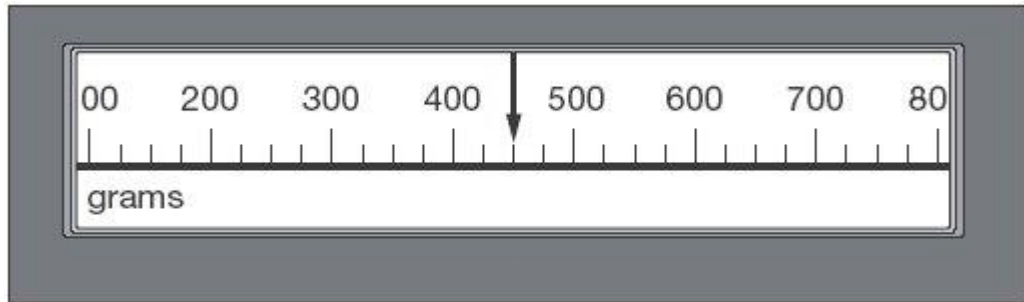
Draw the pointer in its new position on the scale below.



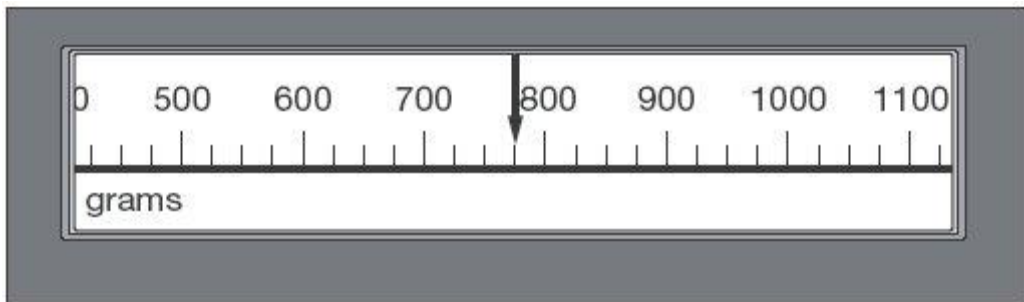
1 mark

**Q9.**

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.



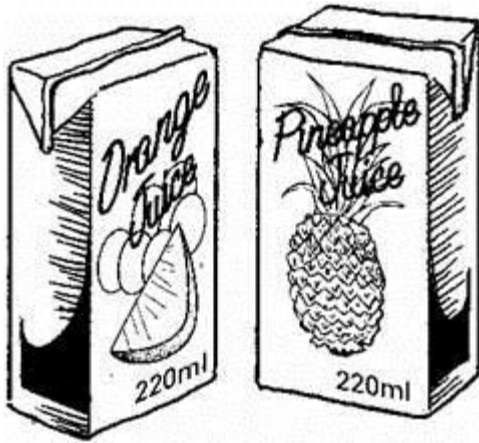
What is the increase in mass?

1 mark

**Q10.**

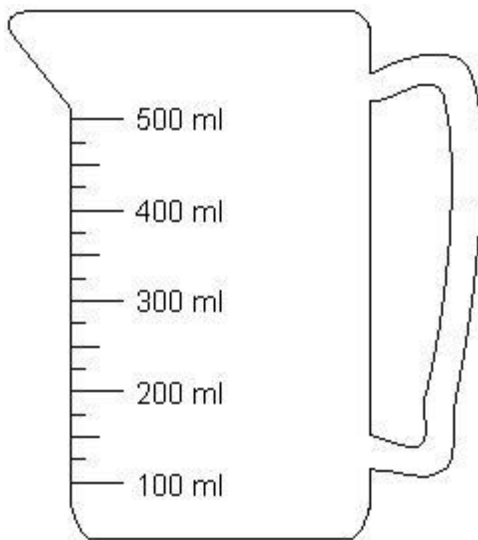
Mina has two cartons of juice.

Each carton contains **220 ml**.



She empties them both into this jug.

Draw an arrow (→) to show the level of the mixture in the jug.

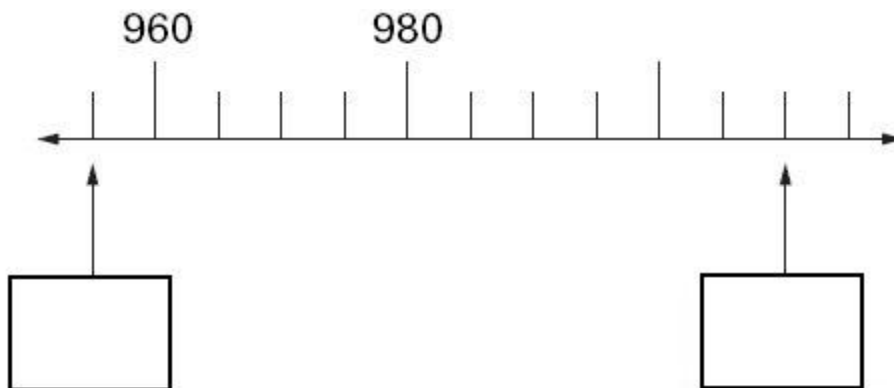


1 mark

**Q11.**

Here is part of a number line.

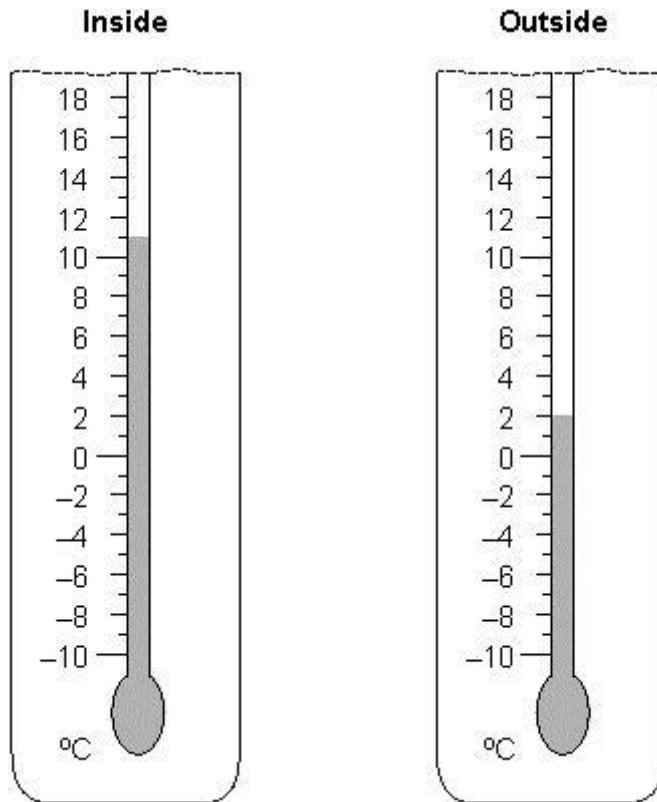
Write the two missing numbers in the boxes.



2 marks







How many degrees **warmer** was it inside the greenhouse than outside?

 °C

1 mark

Later the temperatures were

inside	outside
-1°C	-8°C

What is the difference between these two temperatures?

 °C

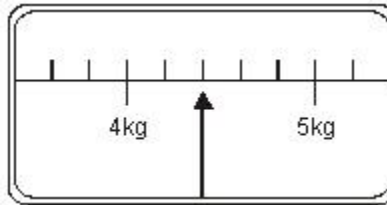
1 mark

**Q14.**

This scale shows the weight of Fred's cat.



Fred's cat



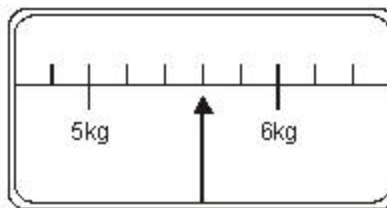
What is the weight of Fred's cat?

1 mark

This scale shows the weight of Fred's dog



Fred's dog



How much **more** does Fred's dog weigh than his cat?

1 mark

### Q15.

Emily is making a cake.

She puts flour on the scales.

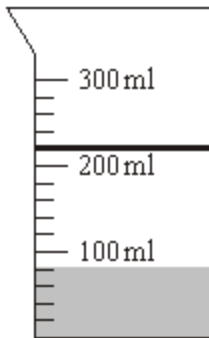
She then adds sugar to the flour.



## Mark schemes

**Q1.**

Level of water indicated as shown:



*Accept answers in the range 215 ml to 225 ml inclusive.*

*Accept: alternative unambiguous indications of the correct level, provided the intention is clear, eg container shaded.*

[1]

**Q2.**

125

[1]

**Q3.**

360

[1]

**Q4.**

2.5 or  $2\frac{1}{2}$

[1]

**Q5.**

Answer is teacher's measurement +/- 2 mm.

*Accept:  $5\frac{1}{2}$  cm.*

[1]

**Q6.**

Two numbers circled as shown:

1.1     $1.4$      $1\frac{1}{3}$      $1\frac{1}{5}$

**Do not** award the mark if additional incorrect numbers are circled.

*Accept: alternative unambiguous indications, eg numbers*

ticked, crossed or underlined.

[1]

**Q7.**

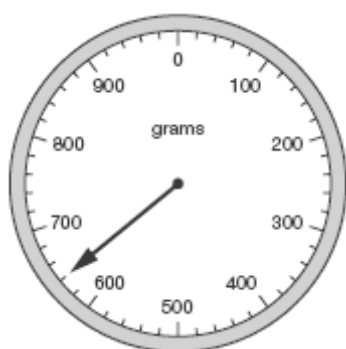
18

*Accept – 18*

[1]

**Q8.**

Arrow drawn to 640, as shown:



*Arrow should be closer to 640 than to 620 or 660*

*Accept any unambiguous indication of the correct point on the scale, including an arrow not originating from the centre of the dial.*

*Accept answer given on upper diagram provided no answer is given on lower diagram.*

[1]

**Q9.**

325

[1]

**Q10.**

Arrow drawn between the marks for 425 ml and 450 ml exclusive.

[1]

**Q11.**

(a) 955 in first box.

1

(b) 1010 in second box.

1

[2]

**Q12.**

Award **TWO** marks for the correct answer as shown:

A = -80      B = 60

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

$140 \div 7 = 20$

*Accept 'minus 80'*

**Do not accept '80-'**

*Answer need not be obtained for the award of **ONE** mark.*

*Accept for **ONE** mark:*

*A = -80 **AND** B = wrong answer **OR***

*A = -80 **AND** B = blank **OR***

*A = 80 **AND** B = 60 **OR***

*A = 80 **AND** B = -60 **OR***

*A = 60 **AND** B = -80*

Up to 2 (U1)

[2]

**Q13.**

(a) 9

1

(b) 7

*Accept -7*

1

[2]

**Q14.**

(a) 4.4

1

(b) 1.2

**OR**

for finding the correct difference between 5.6 and the answer given for part (a)

1

[2]

**Q15.**

Award **TWO** marks for the correct answer of 150

*Accept 0.15 kg or equivalent.*

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method that involves reading both scales correctly **AND** identifies the correct operation needed, eg

$600 - 450 =$

OR

$$450 + 50 + 50 + 50 = 600$$

*A final answer need not be written for the award of the method mark.*

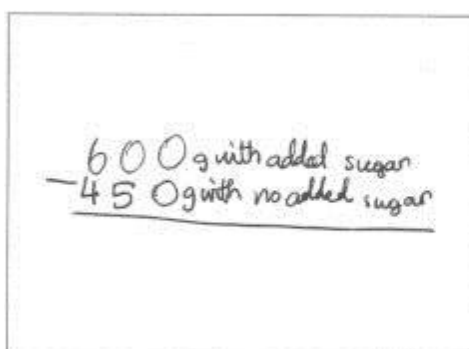
Up to 2

[2]

**Examples of responses**

Craig has shown evidence that he has read both scales correctly and identified the correct operation to calculate the answer. Although he has not written a final answer, this is not required for the award of the mark. Craig can therefore be awarded the mark. Jane has also read the scales correctly but it is not clear from what she has written how she got to an answer of 250. Since she has not identified the correct operation, Jane cannot be awarded the mark.

**Craig**



1 mark

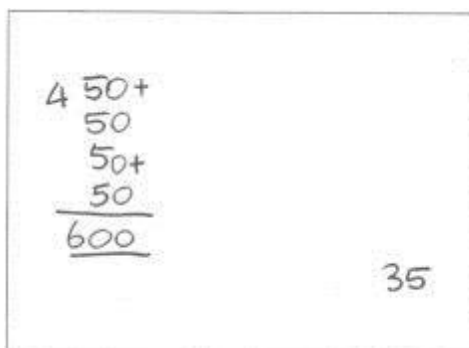
**Jane**



0 marks

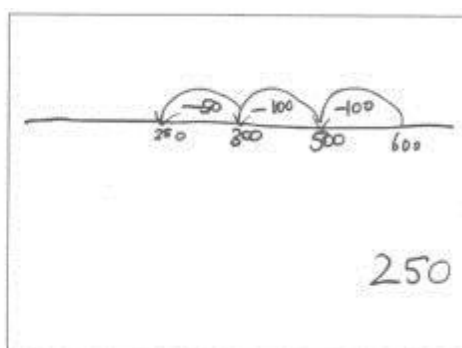
From her working, we can see that Emma has read both scales correctly. She has counted on in steps of 50 from 450 until she reached 600. Since she has read both scales correctly and identified the correct operation to find the answer, her method is appropriate, even though the answer she recorded was incorrect. Emma can be awarded the mark. Adio has used a counting back method on a self-drawn number line, but there is no evidence in his working out that he has read both scales correctly. Adio's method is not correct. Therefore, he cannot be awarded the mark.

**Emma**



1 mark

**Adio**



0 marks

Although the answer to her calculation is incorrect, Jo has shown evidence that she has read the scales accurately and identified the correct operation. Jo's method is, therefore, correct and she can be awarded the mark. Nick has also shown evidence that he has read



the scales correctly, but has identified an incorrect operation by adding rather than subtracting the amounts on the two scales. Nick's method is not correct and he cannot be awarded the mark.

**Jo**

$$600 - 450$$
$$250$$

**1 mark**

**Nick**

$$600 + 450$$
$$1050$$

**0 marks**