

Examination practice questions

You should have:

A ruler, protractor, compasses, a pen, pencil, eraser, calculator.
For some questions, you may need tracing paper.

Instructions

- Use **black** ink or ball-point pen.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- **Calculators may be used.**

Information

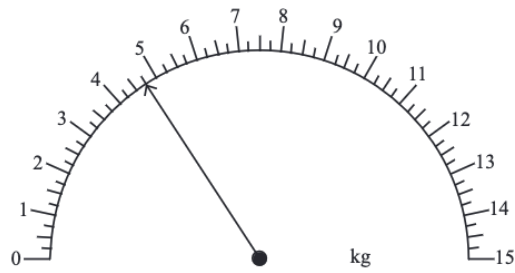
- The marks for each question are shown in brackets.
- If the number of marks for two similar questions isn't the same, this is likely due to them being modelled on different specifications. In this case, it is worth considering both mark schemes.
- Use the number of marks for each question as a guide as to how much time to spend on each question. As a rough guide, you can multiply the number of marks by 1.2 to see how many minutes you should spend on a question.
- Questions will generally get more challenging as the document progresses. Some of the latter questions will go beyond the core grade level for this topic.

Advice

- Read each question carefully before you start to answer it.
- Don't forget to have fun.
- Check your answers at the end.

Q1.

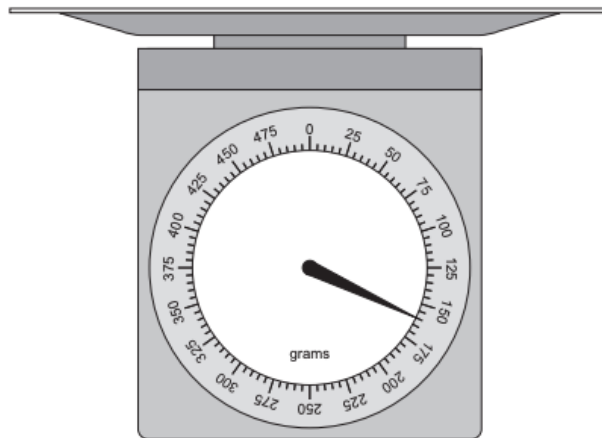
Write down the weight shown on the scales.



(1 mark)

Q2.

Bo has scales that weigh up to 500 g.



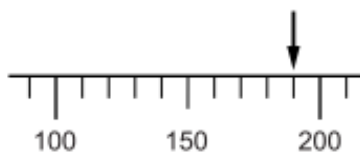
Bo uses the scales to weigh a letter.

How much does the letter weigh?

(1 mark)

Q3.

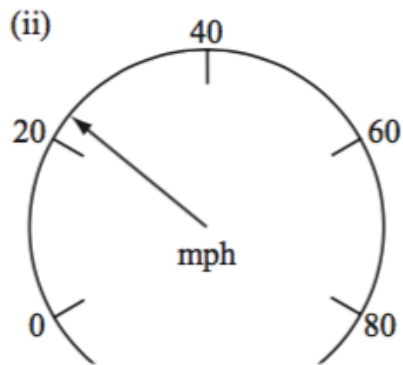
What number is the arrow pointing to on this scale?



.....

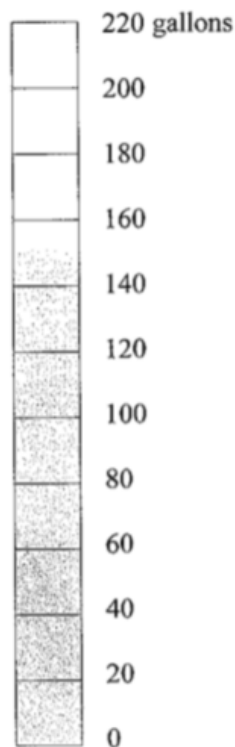
(1 mark)

Estimate the reading on this scale.



.....
(1 mark)

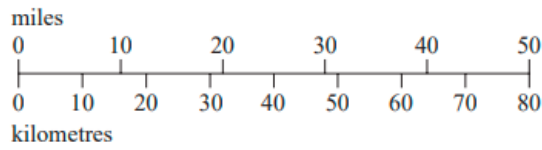
The scale shows how much oil there is in a tank.



Write down an estimate of how much oil there is in the tank.

..... gallons
(1 mark)

This scale can be used to change between kilometres and miles.

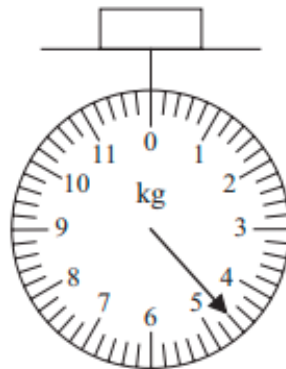


Use the scale to change 40 kilometres to miles.

..... miles

(1 mark)

The diagram shows a parcel on weighing scales.



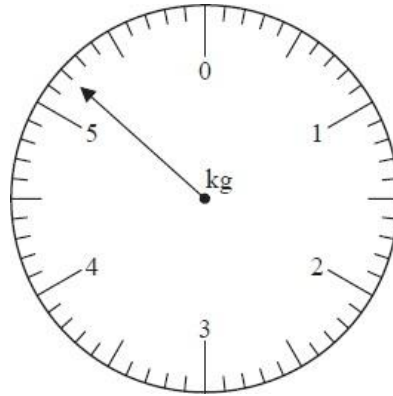
The parcel weighs less than 6kg.
How many kilograms less?

..... kg

(1 mark)

Q8.

What is the reading on the scale?

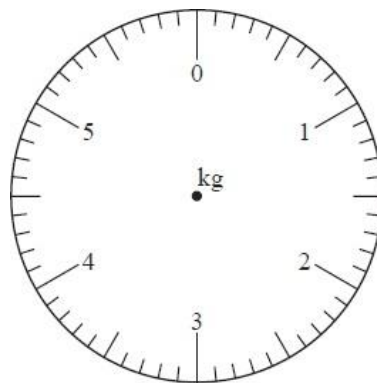


..... kg

(1 mark)

Q9.

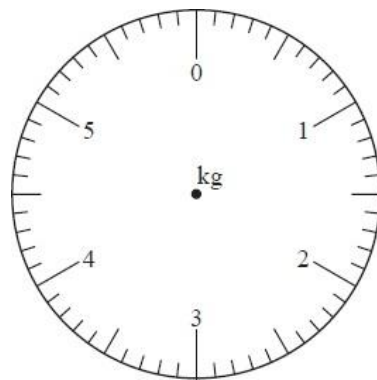
On the scale below, mark with an arrow a reading of 0.5 kilograms.



(1 mark)

Q10.

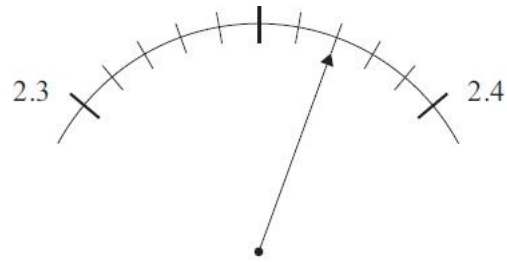
On the scale below, mark with an arrow a reading of 2.6 kilograms.



(1 mark)

Q11.

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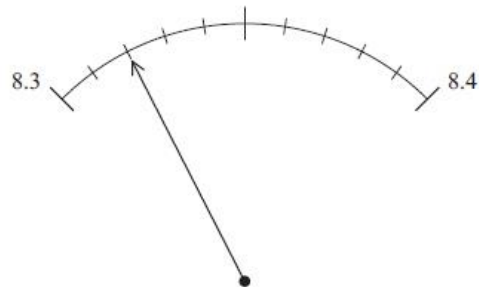


What is the reading on the scale?

.....
(1 mark)

Q12.

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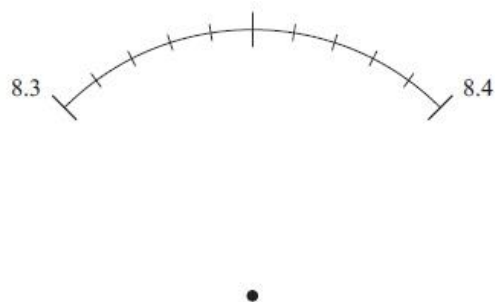


What is the reading on the scale?

.....
(1 mark)

Q13.

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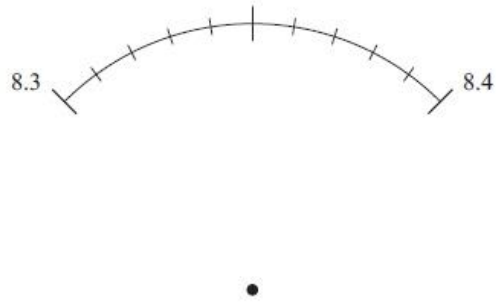


On the scale, mark the number 8.34

.....
(1 mark)

Q14.

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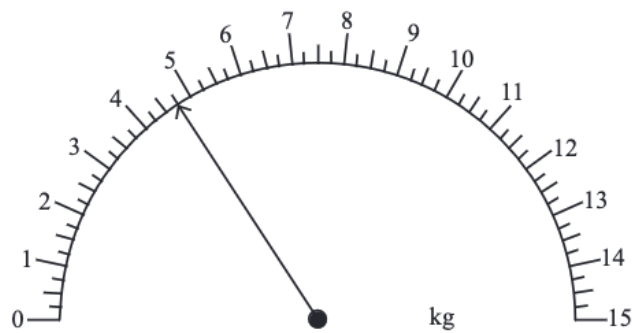
On the scale, mark the number 8.375

(1 mark)

Q15.

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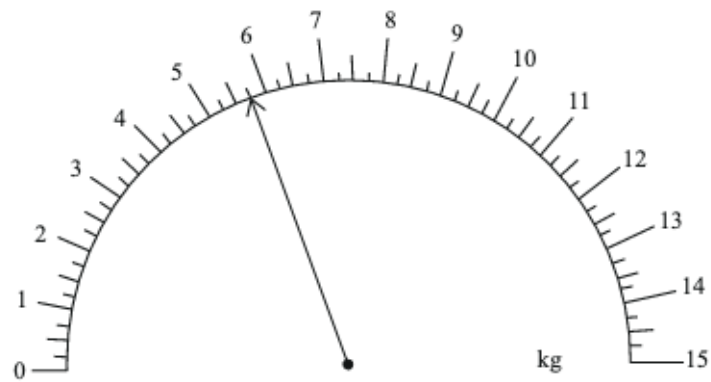
The scales below show 4.75 kg. An extra 5.5 kg is added. How much should the scales show now?



..... kg

(2 marks)

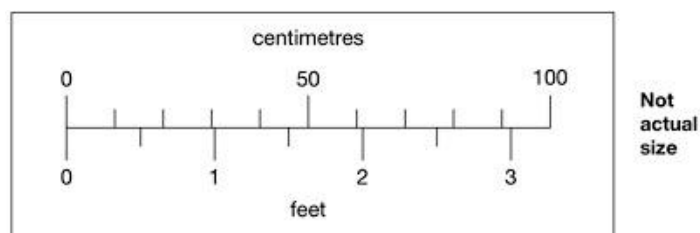
An extra 3.5 kg is added to the weight shown below. Find the total weight now on the scale.



..... kg

(2 marks)

This scale shows length measurements in **centimetres** and **feet**.

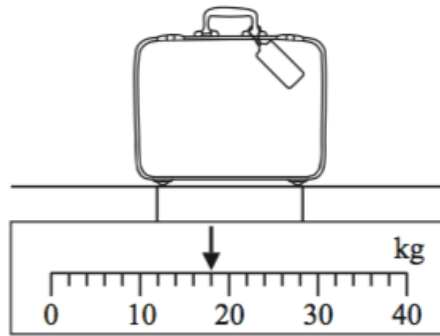


Estimate the difference in centimetres between 50 cm and $1\frac{1}{2}$ feet.

..... cm

(2 marks)

Sanah's suitcase is weighed at an airport. The weight of her suitcase is shown on the scale.

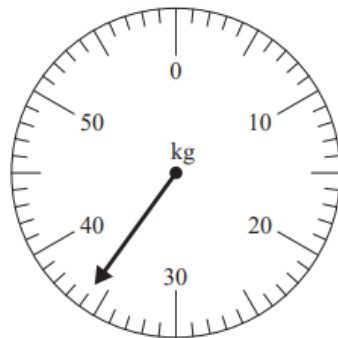


Sanah's suitcase weighs more than 15 kg, so she has to pay an excess baggage charge. She has to pay £7 for each kg more than 15 kg.

How much does Sanah have to pay?

.....
(3 marks)

Amir is going on holiday. He weighs his suitcase on the weighing scales at the airport. The reading on the scale gives the weight of Amir's suitcase.



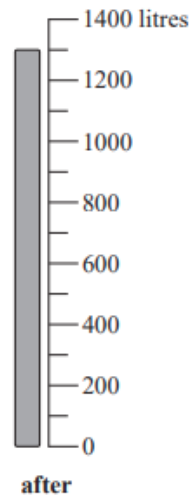
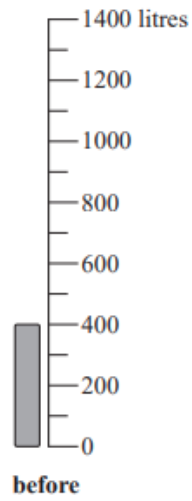
An excess luggage charge has to be paid when the weight of a suitcase is greater than 25 kg. This charge is 7.45 euros for each kilogram over the 25 kg limit.

Work out the excess luggage charge that Amir has to pay.

.....
(3 marks)

Joseph buys some heating oil. He puts it in his oil tank.

The scales show the numbers of litres of oil in the tank immediately before and immediately after Joseph puts the oil in the tank.



The oil Joseph buys costs 0.40 euros per litre.

Work out the total cost of the oil that Joseph buys.

..... euros

(3 marks)