

The length, 7.6 cm, of  $PQ$  is correct to 2 significant figures.

(b) (i) Write down the upper bound of the length of  $PQ$ .

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Q10.

..... cm

(ii) Write down the lower bound of the length of  $PQ$ .

..... cm  
(2)

Q10



11. Joshi chooses two numbers from the box.

Marie says

"When you round Joshi's two numbers to 1 decimal place, they are equal."

Mikos says

"When you round Joshi's two numbers to 3 significant figures, they are NOT equal."

Both statements are correct.

Write down Joshi's two numbers.

- May 03 44
- |        |
|--------|
| 123.37 |
| 123.43 |
| 123.47 |
| 123.53 |
| 123.57 |
| 123.63 |
| 123.67 |

Leave blank

Q11

(Total 2 marks)

14. The volume of oil in a tank is 1000 litres, correct to the nearest 10 litres.  
The oil is poured into tins of volume 2.5 litres, correct to one decimal place.

Calculate the upper bound of the number of tins which will be required.

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.....

(Total 3 marks)

Q14

15. Mia's weight is 57 kg, correct to the nearest kilogram.

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(a) Write down

(i) the upper bound of her weight,

..... kg

(ii) the lower bound of her weight.

..... kg  
(2)

Alice's weight is 62 kg, correct to the nearest kilogram.

(b) Work out the upper bound for the difference between Alice's weight and Mia's weight.

..... kg  
(2)

Q15

(Total 4 marks)

21. Correct to 1 significant figure,  $x = 7$  and  $y = 9$

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(a) Calculate the lower bound for the value of  $xy$

.....  
(2)

(b) Calculate the upper bound for the value of  $\frac{x}{y}$

.....  
(3)

Q21

(Total 5 marks)

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Leave  
blank

23. In a race, Paula runs 25 laps of a track.  
Each lap of the track is 400 m, correct to the nearest metre.  
Paula's average speed is 5.0 m/s, correct to one decimal place.

Calculate the upper bound for the time that Paula takes to run the race.  
Give your answer in minutes and seconds, correct to the nearest second.

.....  
Q23

(Total 4 marks)