



ACHIEVE ACADEMY

GCSE Maths — Foundation Tier

Bounds & Error Intervals · Practice Booklet

NAME: _____

CLASS: _____

DATE: _____

☐ Developing

☒ Secure

☐ Greater Depth

Answer every question in the working space provided. Method marks are available for correct working even if the final answer is wrong. Check the time allowed with your tutor before you start.

Bounds & Error Intervals

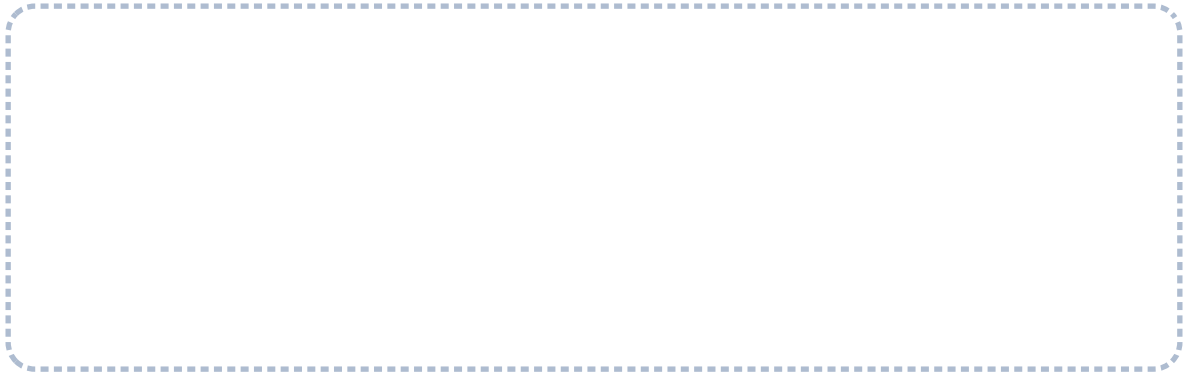
Total marks available: 55

● Bounds & Error Intervals

Q1

[2 marks]

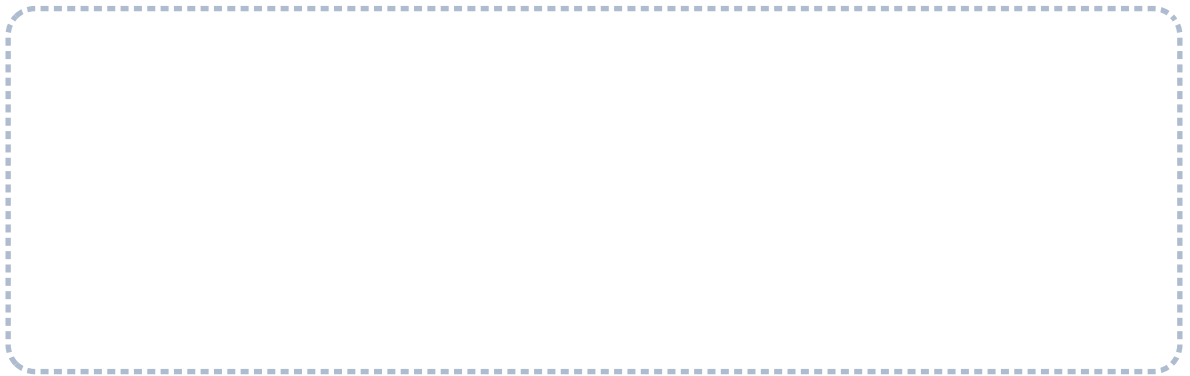
A volume, x litres, is 1800 litres correct to the nearest 100 litres. Complete the error interval for x : $\dots\dots \leq x < \dots\dots$



Q2

[2 marks]

A mass, x kg, is 1600 kg correct to the nearest 100 kg. Complete the error interval for x : $\dots\dots \leq x < \dots\dots$



Q3

[1 mark]

A mass is 53 kg, correct to the nearest whole number. Write down the smallest value the mass could be.

Q4

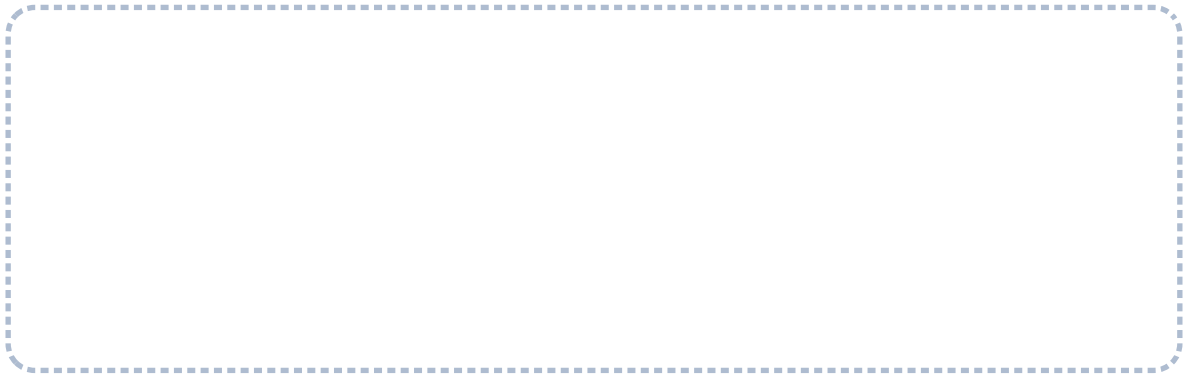
[2 marks]

A length, x cm, is 1900 cm correct to the nearest 100 cm. Complete the error interval for x : $\leq$
 $x <$

Q5

[2 marks]

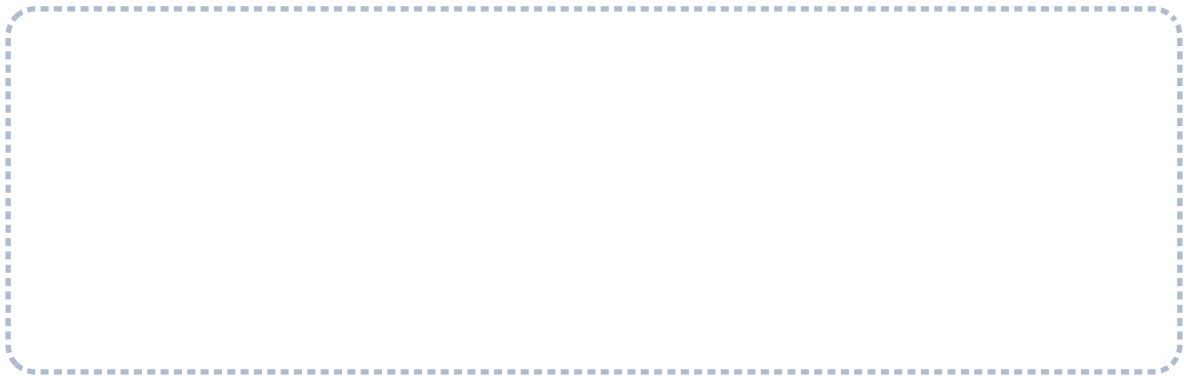
A mass, x kg, is 380 kg correct to the nearest 10 kg. Complete the error interval for x : $\leq x <$



Q6

[1 mark]

The number of people at a concert is 4,200, correct to the nearest 100. Write down the least number of people that could have been at the concert.



Q7

[1 mark]

A mass is 380 kg, correct to the nearest 10 kg. Write down the smallest value the mass could be.



Q8

[1 mark]

A mass is 320 kg, correct to the nearest 10 kg. Write down the smallest value the mass could be.

Q9

[1 mark]

The number of people at a concert is 5,400, correct to the nearest 100. Write down the least number of people that could have been at the concert.

Q10

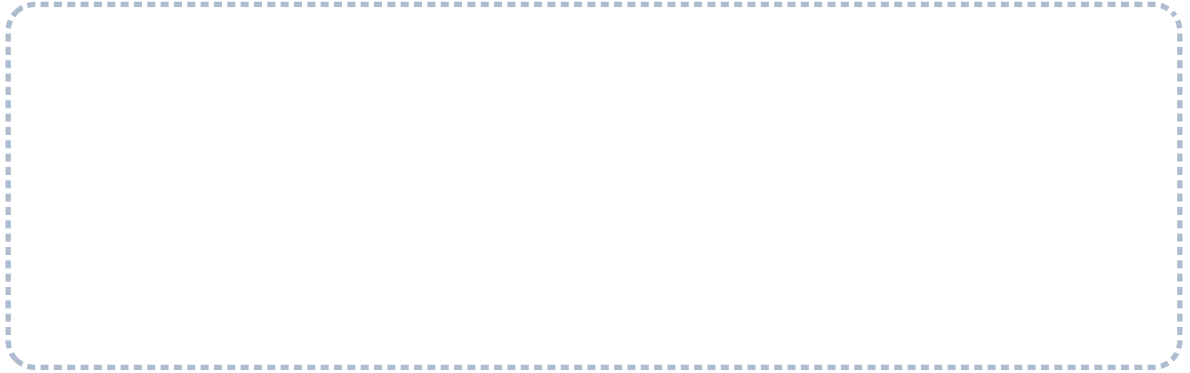
[2 marks]

A length, x cm, is 1700 cm correct to the nearest 100 cm. Complete the error interval for x : $\leq$
 $x <$

Q11

[2 marks]

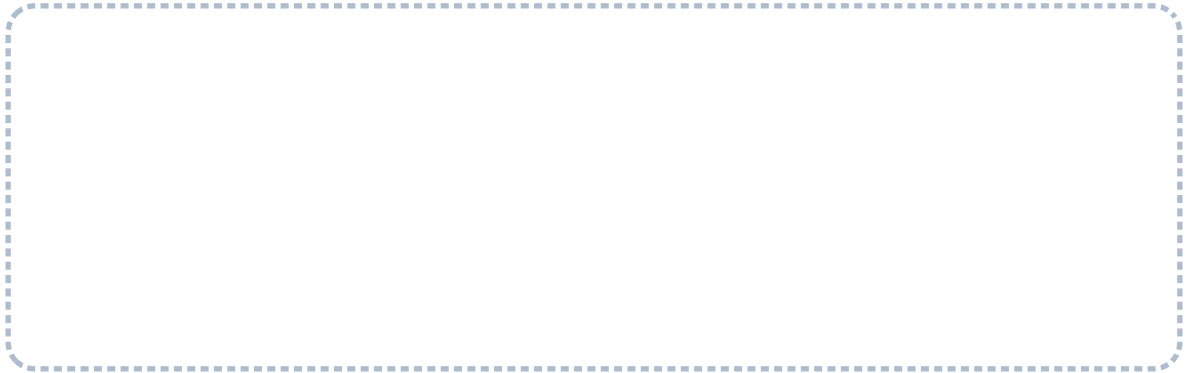
A mass, x kg, is 31.9 kg when rounded to 1 decimal place. Write down the error interval for x .



Q12

[2 marks]

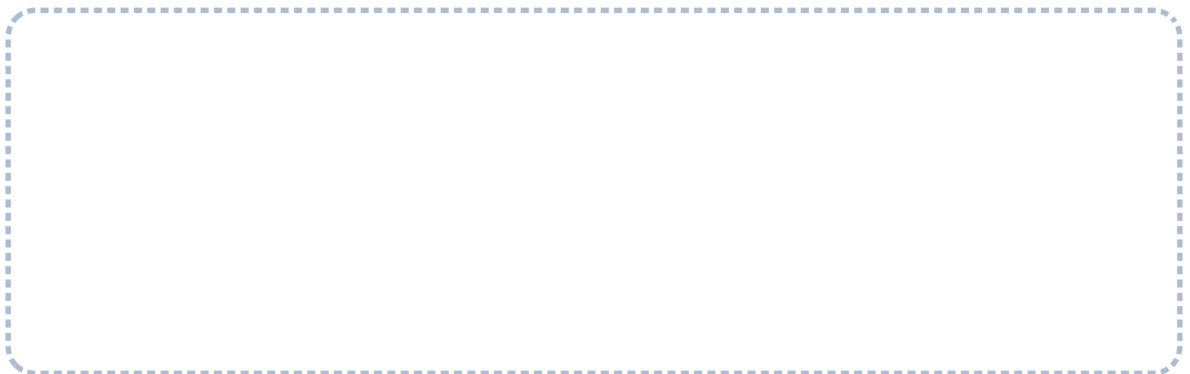
A mass, x kg, is 37.5 kg when rounded to 1 decimal place. Write down the error interval for x .



Q13

[2 marks]

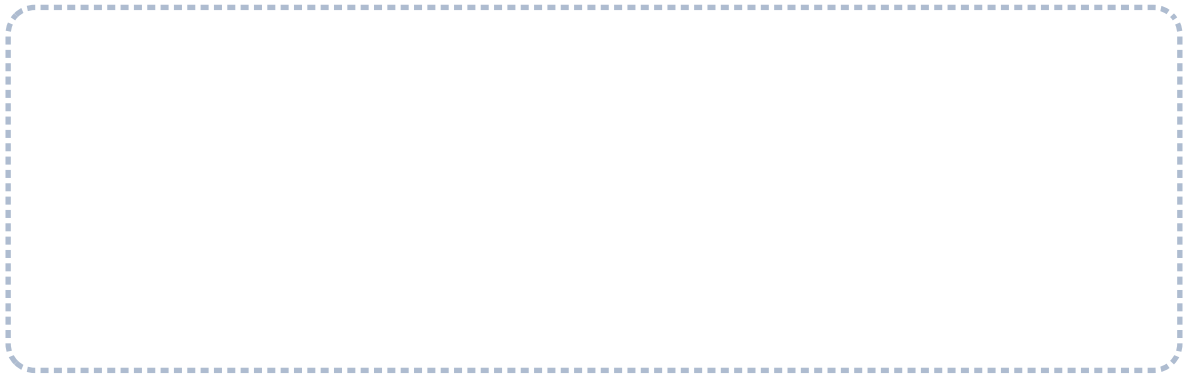
A volume, x litres, is 31.7 litres when rounded to 1 decimal place. Write down the error interval for x .



Q14

[2 marks]

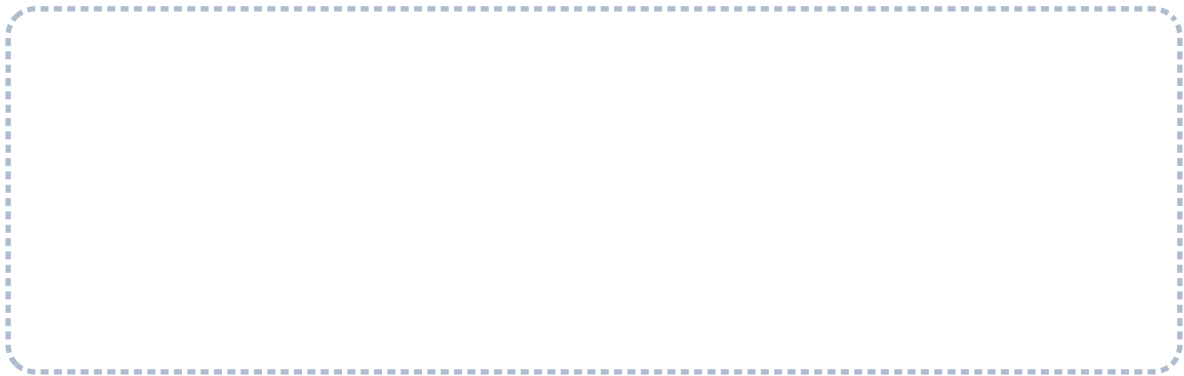
A mass, x kg, is 33.9 kg when rounded to 1 decimal place. Write down the error interval for x .



Q15

[2 marks]

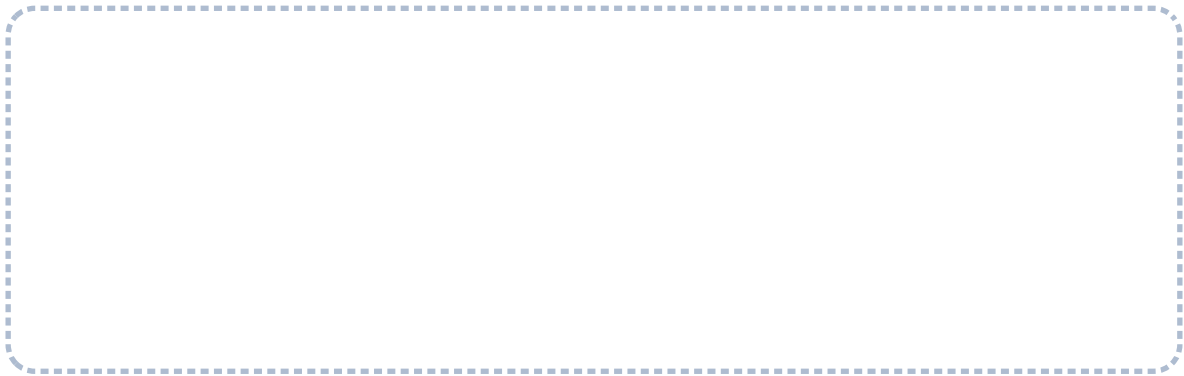
A volume, x litres, is 262 litres when rounded to the nearest whole number. Write down the error interval for x .



Q16

[2 marks]

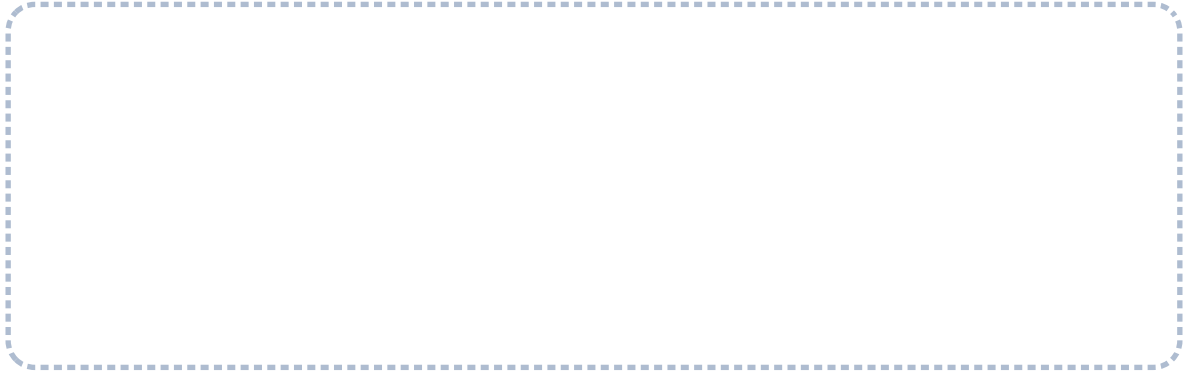
A volume, x litres, is 31.9 litres when rounded to 1 decimal place. Write down the error interval for x .



Q17

[2 marks]

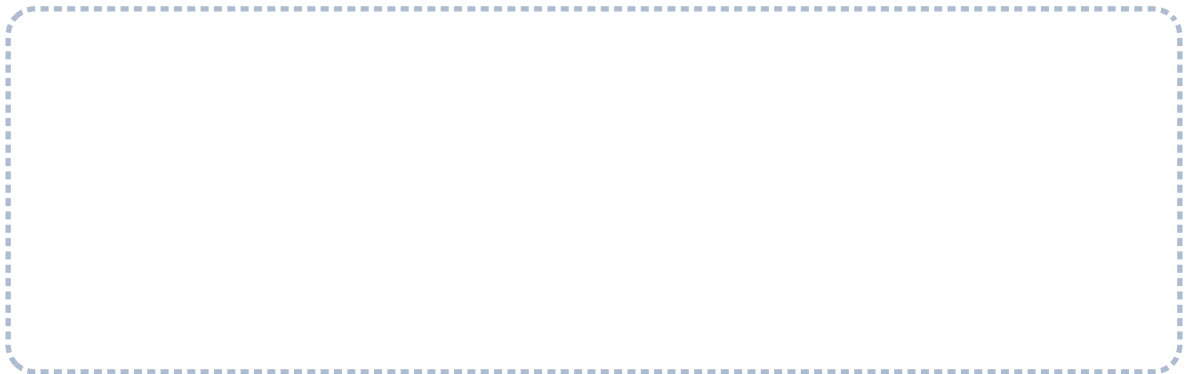
A volume, x litres, is 35.8 litres when rounded to 1 decimal place. Write down the error interval for x .



Q18

[2 marks]

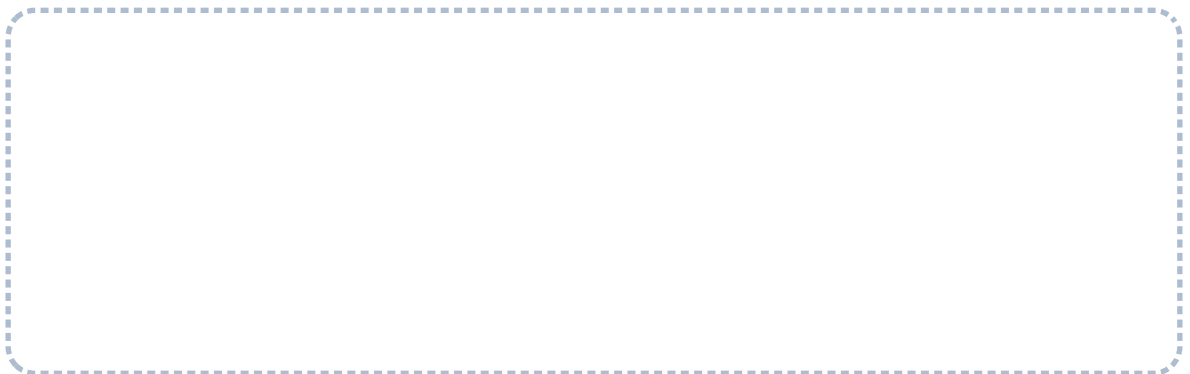
A mass, x kg, is 224 kg when rounded to the nearest whole number. Write down the error interval for x .



Q19

[2 marks]

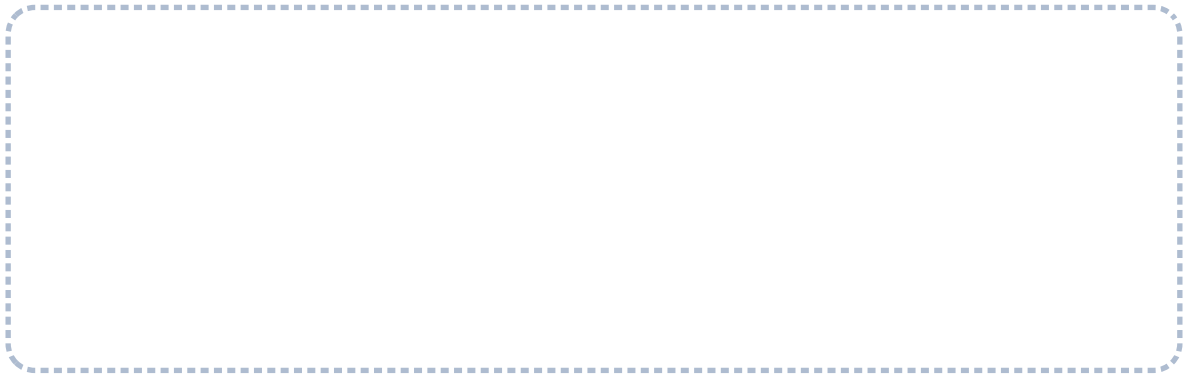
A length, x cm, is 148 cm when rounded to the nearest whole number. Write down the error interval for x .



Q20

[2 marks]

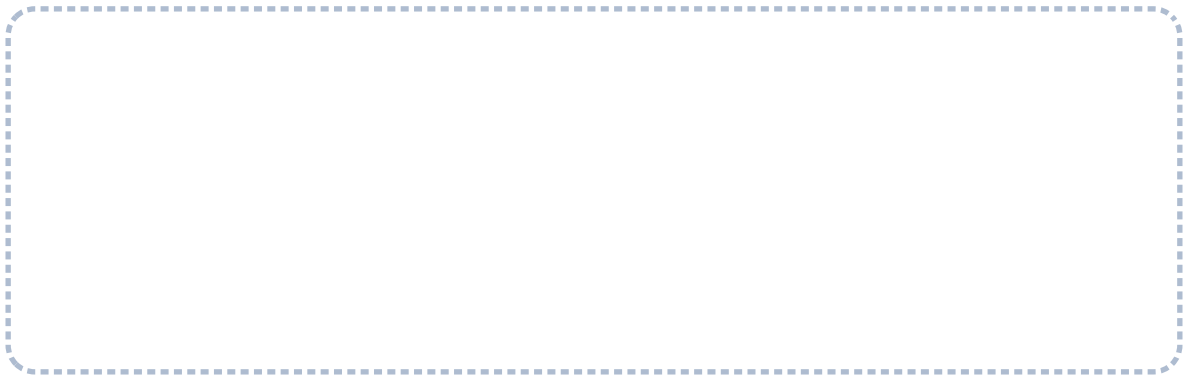
A length, x cm, is 202 cm when rounded to the nearest whole number. Write down the error interval for x .



Q21

[2 marks]

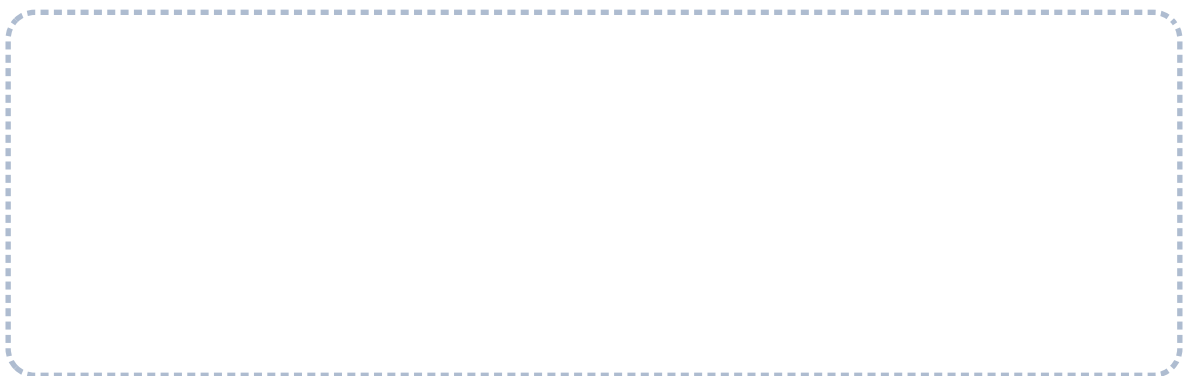
A length, x cm, is 180 cm correct to 2 significant figures. Write down the error interval for x .



Q22

[2 marks]

A volume, x litres, is 15.3 litres when it is truncated to 1 decimal place. Write down the error interval for x .

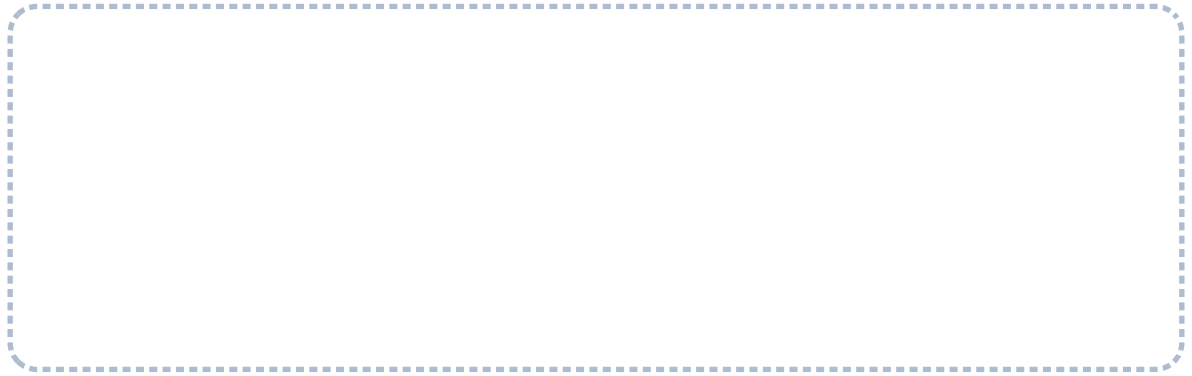


Q23

[2 marks]

A length is 4.5 cm, correct to 1 decimal place. Which of these could be the actual length? Write down all that could be correct.

4.55 cm, 4.45 cm, 4.54 cm, 4.43 cm

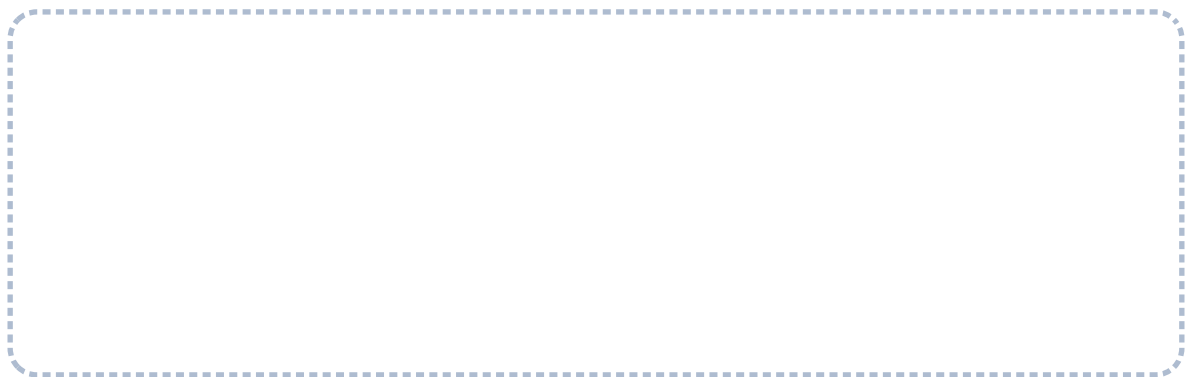


Q24

[2 marks]

A volume is 6.9 litres, correct to 1 decimal place. Which of these could be the actual volume? Write down all that could be correct.

6.85 litres, 6.94 litres, 6.95 litres, 6.82 litres



Q25

[2 marks]

A volume is 7.2 litres, correct to 1 decimal place. Which of these could be the actual volume? Write down all that could be correct.

7.21 litres, 7.15 litres, 7.25 litres, 7.13 litres

Q26

[2 marks]

A mass, x kg, is 300 kg correct to 1 significant figure. Write down the error interval for x .

Q27

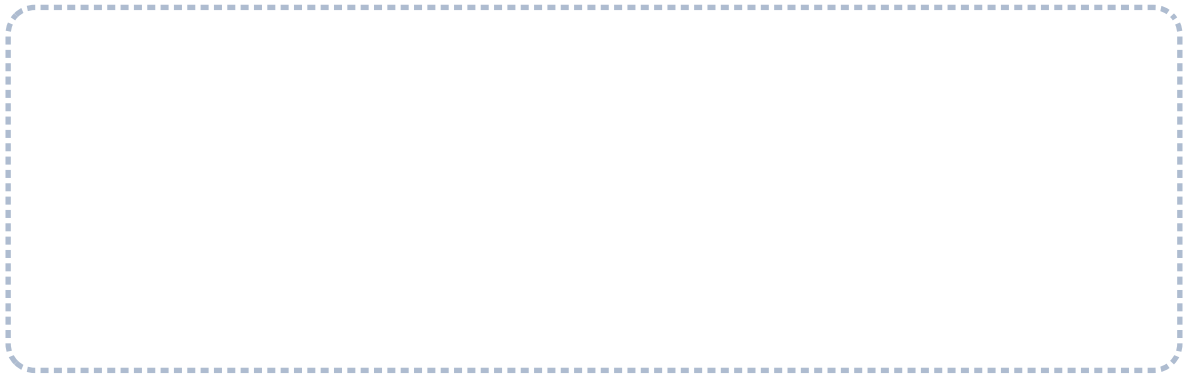
[2 marks]

A length, x cm, is 47 cm when it is truncated to a whole number. Write down the error interval for x .

Q28

[2 marks]

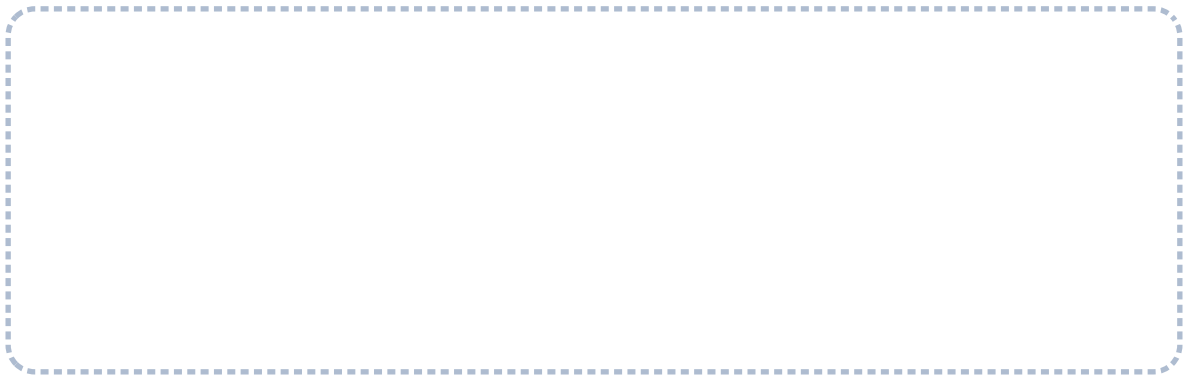
A length, x cm, is 1.2 cm correct to 2 significant figures. Write down the error interval for x .



Q29

[2 marks]

A mass, x kg, is 7.1 kg when it is truncated to 1 decimal place. Write down the error interval for x .



Q30

[2 marks]

A length, x cm, is 8.1 cm correct to 2 significant figures. Write down the error interval for x .

