

Upper and Lower Bounds Accuracy

$$19 \quad D = \frac{u^2}{2a}$$

$u = 26.2$ correct to 3 significant figures

$a = 4.3$ correct to 2 significant figures

(a) Calculate the upper bound for the value of D .

N57 Give your answer correct to 6 significant figures.

You must show all your working.

$$\begin{array}{l} 26.2 \begin{array}{l} \nearrow 26.25 \\ \searrow 26.15 \end{array} \quad 4.3 \begin{array}{l} \nearrow 4.35 \\ \searrow 4.25 \end{array} \end{array}$$

largest

$$D = \frac{26.25^2}{2(4.25)} \rightarrow \text{Big}$$

$$= 81.066176$$

$$\underline{81.0662} \quad (1)$$

The lower bound for the value of D is 78.6003 correct to 6 significant figures.

(b) By considering bounds, write down the value of D to a suitable degree of accuracy.

You must give a reason for your answer.

N58

		1SF	2SF	
UB = 81.0662	80	81	X	
LB = 78.6003	80	79	X	80

(2)

Upper and Lower Bounds Accuracy

23 A race is measured to have a distance of 10.6 km, correct to the nearest 0.1 km.

Sam runs the race in a time of 31 minutes 48 seconds, correct to the nearest second.

N58

Sam's average speed in this race is V km/hour.

By considering bounds, calculate the value of V to a suitable degree of accuracy.

You must show all your working and give a reason for your answer.

$$\begin{array}{l} 10.6 \text{ km} \begin{array}{l} \nearrow 10.65 \text{ km} \\ \searrow 10.55 \text{ km} \end{array} \\ 31 \text{ min } 48 \text{ sec} \begin{array}{l} \nearrow 31 \text{ min } 48.5 \text{ sec} \\ \searrow 31 \text{ min } 47.5 \text{ sec} \end{array} \end{array}$$

$$\begin{aligned} \text{Upper speed} &= \frac{10.65 \text{ km}}{31 \text{ min } 47.5 \text{ sec}} \\ &= 20.09960682 \text{ km/hr} \\ \text{Lower speed} &= \frac{10.55 \text{ km}}{31 \text{ min } 48.5 \text{ sec}} \\ &= 19.91000644 \text{ km/hr} \\ &= 20 \text{ km/hr} \end{aligned}$$

(Total for Question 23 is 5 marks)



Gcse Maths Prediction 2paper 2

A Loxley



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