Non-Calculator

Q1.

The manager of a theatre records the attendance figure for a show to 2 significant figures.

A newspaper rounds the manager's figure to 1 significant figure.

THEATRE NEWS

500 attend show

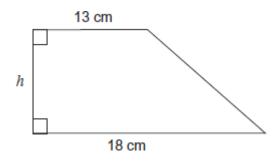
W	hat is the lowest and highest possible actual attendance?
	Lowest
	Highest
	(Total 3 mark
<u>Calcı</u>	<u>ulator</u>
	shelf supports 80 kg, to the nearest kilogram. ottles weigh 1.4 kg each, to the nearest tenth of a kilogram.
W	ork out the greatest number of bottles that can definitely be supported by the shelf.
	Answer

(Total 4 marks)

Q3.

The area of this trapezium is 280 cm² to the nearest 10 cm²

Not drawn accurately



The lengths 13 cm and 18 cm are given to the nearest centimetre.

ork out the maximum possible value of the height $h.$	
Answer	cm

(Total 4 marks)

(3	Į	4	1	

A formula connecting speed (s), distance (d) and time (t) is

$$S = \frac{d}{t}$$

d = 160 to 2 significant figures t = 7.2 to 2 significant figures

ork out the upper and lower bounds for s . ve your answers to 3 significant figures.	
	_ _
Upper bound	
Lower bound	

(Total 4 marks)

Q5	. Luke has a rectangular garden.	
	The length is 40 m The width is 25 m Both measurements are given to the nearest metre.	
	Mira also has a garden. The area is 970 m^2 to the nearest 10 m^2	
	Mira thinks her garden has a bigger area.	
	Is she correct?	
	Tick a box. You must show your working.	
	Correct Incorrect	Cannot tell
		(Total 3 marks)
Q6	•	
	Bags of nails weigh 200 grams each.	
	Boxes of screws weigh 140 grams each.	
	Both measurements are given to the nearest 10 grams.	
	Show that 4 bags of nails could weigh the same as 6 boxes of screws.	
		(Total 3 marks)

Each weight	plate is 10 k greatest nu	g to the nea ımber of wei	ad of 145 kg of weight plates. arest kilogram. ight plates that can be safely loaded on the gym.
			ight plates that can be safely loaded on the gym.
		Answe	er
		Allawe	(Total 4 r
Amy and Kat			st tenth of a kilogram, is shown.
Amy	6.8 kg	4.3 kg	5.2 kg
Kate	8.2 kg	3.4 kg	4.5 kg
Kate says tha	at the total w	eight of her	fish is more than the total weight of Amy's fish.
Show that thi	s could be t	ue.	