

Write down the least and the greatest lengths of the side of the tile. Least length cm Greatest length cm [2] 3. The length of a roll of plastic sheeting is 500 cm, measured to the nearest 5 cm. (a) Write down the least possible length and greatest possible length of the roll of plas sheeting. Least possible length cm Greatest possible length cm [6] (b) A plastic sheet of length 100 cm, measured to the nearest 5 cm, is cut from the roll of plas sheeting. Find the least possible length of the sheeting left on the roll.	MACHSDIY 2.		length of a plank of wood is 950 r e down the least and greatest pos							
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		(b)								
						[3]				

A truck can carry a load of 1600 kg, to the nearest 100 kg. A crate weighs 75 kg, correct to the nearest 5 kg. What is the maximum possible number of crates that could be placed on the truck?
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	Lea	st height cm		
	Great	test heightcm	Į	
One supplier, "Worktop Magic", states that the length of each worktop is 4000 mm, measu the nearest 5 mm. The other supplier, "Worktops 4 U", states that the length of each work 4000 mm ± 3 mm. (a) Complete the following table.				
		Least possible length	Greatest possible length	
	Worktop Magic	mm	mm	
	Worktops 4 U	mm	mm	



8.

A company makes paving slabs. The dimensions of the paving slabs are:

> Length 0.8 metres Width 0.55 metres

Each dimension is measured correct to the nearest centimetre.

The company makes this claim in an advertisement:

100 paving slabs will cover an area of at least $43.5\,\mathrm{m}^2$

(a)	Is this claim true? Show your working and give a reason for your answer.	
		[4
(b)	Write down the maximum area that could be covered by 100 of these paving slabs.	
		[2
	boxes have heights of 134 mm and 23 mm, each measured to the nearest mm. the maximum height when the boxes are placed one on top of the other.	
		г Г11

9.	_	are paving stones are manufactured so that the length of each of them is 51 cm, measured to the est centimetre.	he
	(a)	Write down the least and greatest length of a square paving stone.	
		Least length cm Greatest length cm	[2]
	(b)	The length of a path is 30.0 m, measured correct to the nearest 0.1 of a metre. Starting at one end of the path, 60 of the paving stones are laid end to end in a straight li along the path. Explain, showing all your calculations, why the paving stones will always longer than the path.	
]	5]
0.	A jug	has a volume of 1000 cm ³ , measured to the nearest 50 cm ³ .	
	(a)	Write down the least possible value of the volume of the jug and the greatest possible val of the volume of the jug.	ue
		Least possible volumecm ³ Greatest possible volumecr	n ³ [2]
	Water	r is poured from the jug into a tank of volume 52 litres measured to the nearest litre.	
	(b)	Explain, showing all your calculations, why it is always possible to pour water from 50 figures into the tank without overflowing.	ull
			[5]

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11. Fertiliser is sold in bags, each of mass 12kg, correct to the nearest kg.

(i)	Find the least possible	value and the	e greatest possible v	alue of the mass of 100 b
	Least mass	ke	Greatest mass	- Lo
	of 100 bags	Ад	of 100 bags	Αξ
(ii)	Chris wishes to be sure Find the least number 1200 kg of fertiliser is	of bags Chri		iser to a customer. n order to be sure that a
		•••••••		



Wall tiles for sale Length 30 cm Width 15 cm All measurements to the nearest centimetre

(a)	Is it always possible to tile an area of up to 8500 cm ² using 20 of these tiles? You must give a reason and show your working.	
		[4]
(b)	Write down the maximum area that could be covered using 20 of these tiles.	
		[2]



13.	A time of 35·2 seconds, measured correct to the nearest tenth of a second, was recorded for the winner of a 300 metres race. The race track had been marked out to within an accuracy of $\pm 0\cdot 1\%$. Clearly explaining your reasoning, calculate the greatest and least possible values of the average
	speed of the winner, giving your answers in metres per second.
	[7]

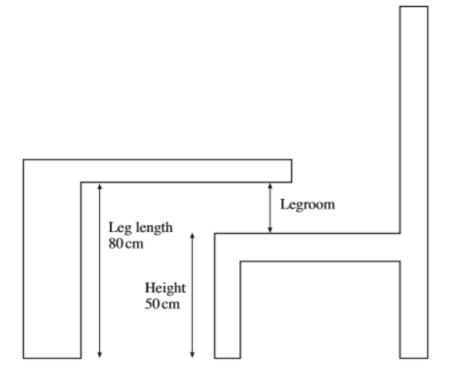


Diagram not drawn to scale.

The legroom between a table and a chair is calculated by finding the difference between the length of the leg of a table and the height of the chair. In the diagram, both the height of the chair and the length of the leg of the table are given correct to the nearest cm. Find, in centimetres, the least and greatest possible values of the legroom.
Least cm Greatest cm [4]



The	length of a table top is 2050mm, measured to the nearest 10mm.	
(a)	Write down the least and greatest possible values of the length of the table to	op.
	Least value mm Greatest value mm	[2]
(b)	The width of the table top is 1040 mm, measured to the nearest 10 mm. Find the least possible perimeter of the table top.	
		[3]