CAN M	REVISE THIS TOPIC
1	To the nearest pound, Eric has £8.00 To the nearest 10p, Nicky has £1.60
1 (a)	Work out the maximum possible total amount of money. [3 marks] $7 \cdot 50 \leqslant E \leqslant 8 \cdot 50$
	1·22 ≤ N < 1·65
	28.49+21.64
	Answer £ (0 · 13
1 (b)	Eric buys a new phone case. The phone case costs £2.50 (to the nearest 50p).
	Work out the maximum amount of money that Eric could have left after buying the phone case. [3 marks] $2 \cdot 25 \le P \le 2 \cdot 75$
	$\frac{2}{8}\cdot 49 - 22\cdot 25 = \frac{2}{6}\cdot 24$

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2	To 2 significant figures, the capacity of a can of drink is 330 ml A multipack contains 24 cans of drink.
2 (a)	Work out the upper bound for the capacity of the multipack of cans. [2 mark $325 \le c < 335$
	335×24 = 8040
	Answer 8040 ml
2 (b)	Work out the lower bound for the capacity of the multipack of cans. [2 mar
	325 × 24 = 7800
	Answer 7800 ml
2 (c)	Arya opens one of the cans of drink. She drinks 72 ml (to the nearest ml) of the drink.
	Work out the lower bound for the amount of drink that could be left in the can. $325 \leq C < 335$
	71.5 < A < 72.5
	325 - 72.5 = 252.5
	Answer 252.5 ml
1 st	

	A stadium contains 32000 fans (to 2 significant figures). On average, each fan spends £3.50 (to the nearest 50p) at the stadium.
3 (a)	Work out the upper bound for the total amount of money spent. [3 marks]
	31500 < F < 32500
	3.25 ≤ S < 3.75
	32500 × £3.75 = £121875
	Answer £ 121875
3 (b)	Work out the lower bound for the total amount of money spent. [2 marks]
	31500× £3.25
	= ZIO2375
	Answer £ 102375
3 (c)	At half time 30% (to the nearest 10%) of the fans leave the stadium.
0 (0)	Work out the lower bound for the number of fans that leave the stadium 12 marks
	$25^{\circ}/4 P < 35^{\circ}/4$
	31500 x 0.25 =7875
	Answer 7875
st	Turn over ▶

ł	The dimensions of a rectangle are shown to the nearest metre.	
	13 m	
	4 m	
4 (a)	Work out the upper bound for the area of the rectangle. $12.5 \le 1.5 \le 5$	[3 mark
	$3.5 \le \omega < 4.5$	
	$13.5 \times 4.5 = 60.75$	
	Answer 60.75	m²
(b)	Work out the lower bound for the perimeter of the rectangle. $2 \cdot 5 + 3 \cdot 5 + 12 \cdot 5 + 3 \cdot 5$	[2 mark
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	To 1 decimal place, the radius of a circle is 6.5 cm	
5 (a)	Work out the lower bound for the area of the circle.	[2 marks]
	$6.45 \le \Gamma < 6.55$	
	$\pi \times 6.45^2 = 130.698$	1084
	Answer 130.7	cm ²
(b)	Work out the upper bound for the circumference of the circle.	[2 marks]
	2×TX 6.55 = 41.154	86376
	Answer 41.2	cm
	x = 700 (to 1 significant figure) y = 84 (to the nearest integer)	
	Work out the upper bound for $2x + y$ $650 \leq x < 750$	[2 marks]
	83.5 < 4 < 84.5	
	$2 \times 750 + 84 \cdot 5 = 1584 \cdot 5$	5
+	Answer 1584.5	
SL		Turn over ►









The dimensions of a cylinder are shown to the nearest metre. 13



The cylinder exerts a force of 8×10^5 Newtons (to 1 significant figure) onto a floor.

Calculate the lower bound for the pressure between the cylinder and the floor.

Give your answer to 5 significant figures.	[5 marks]
$750000 \le F < 850000$	
2.5 ≤ Diameter < 3.5	
1.25 § Radius < 1.75	
$Pressure_{B} = \frac{750000}{1000}$	
π×1.75 ²	
= 77953.4418	1
770 67	
Answer $+7755$	N/m ²



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