Algebra: Quadratics, Rearranging Formulae and Identities Calculator 10 minute test 3

Answer all questions.				
1		Tick the statements below that are the same as the answer to $a^3 \times a^3$		
			[2 marks]	
1	(a)	$2a^3$		
•	(u)			
1	(b)	a ⁹		
	(-)	-6		
1	(c)	a ⁶		
1	(d)	$(a^3)^2$		
2		Factorise fully $4x^2 - 100x$		
2		ractorise fully 4x - 100x	[2 marks]	
			[=	
		Answer		
_		Make the cubicat of the Full		
3		Make c the subject of $a = b + \frac{c}{2}$	50 1	
			[2 marks]	
		Δ. μ		
		Answer		
4		Here is a number machine		
	($(n) \longrightarrow \longrightarrow \longrightarrow $	n^2	

Write an operation in each box to make the number machine work.

- 5 These steps can be used to find the volume of a cylinder.
 - Square the radius.
 - Multiply by 3.14
 - Multiply by the perpendicular height.

Use these steps to find the volume when the radius is 3.6 cm and the perpendicular height is 20cm. Give your answer to 3 significant figures.			
ricight is 200m. Give your answer to 5 significant figures.	[3 marks]		
Answer	cm^3		