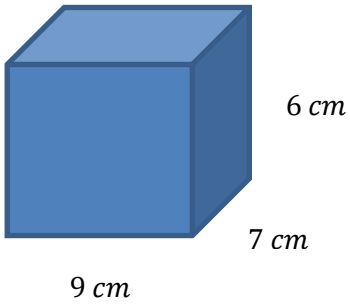
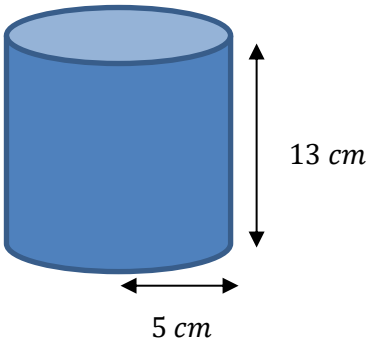
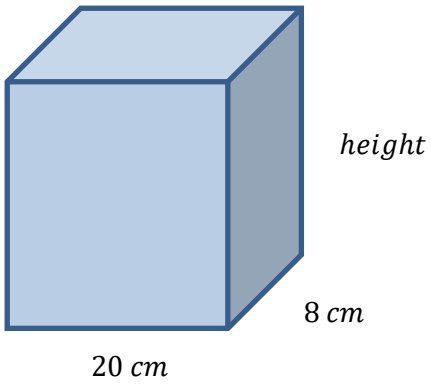
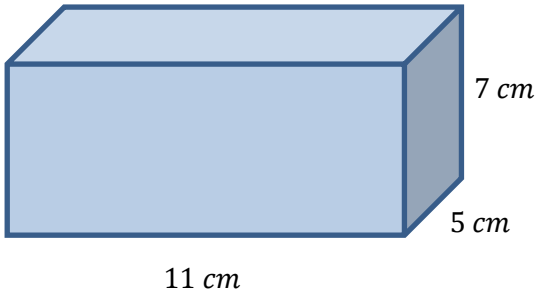
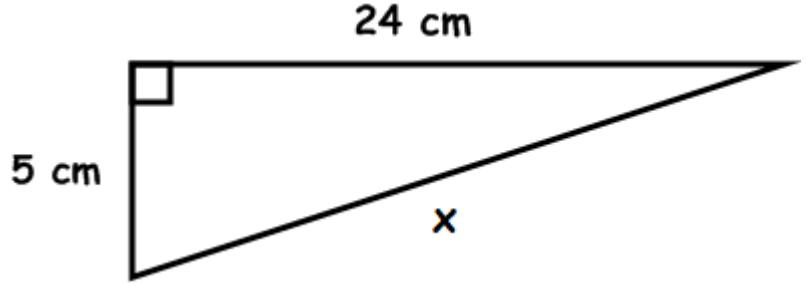
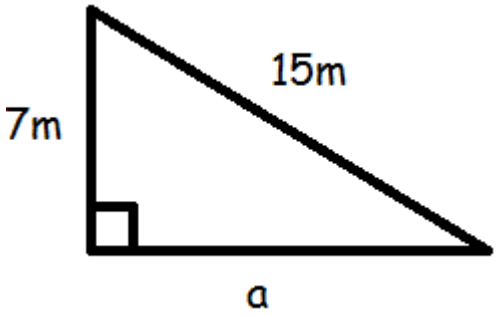
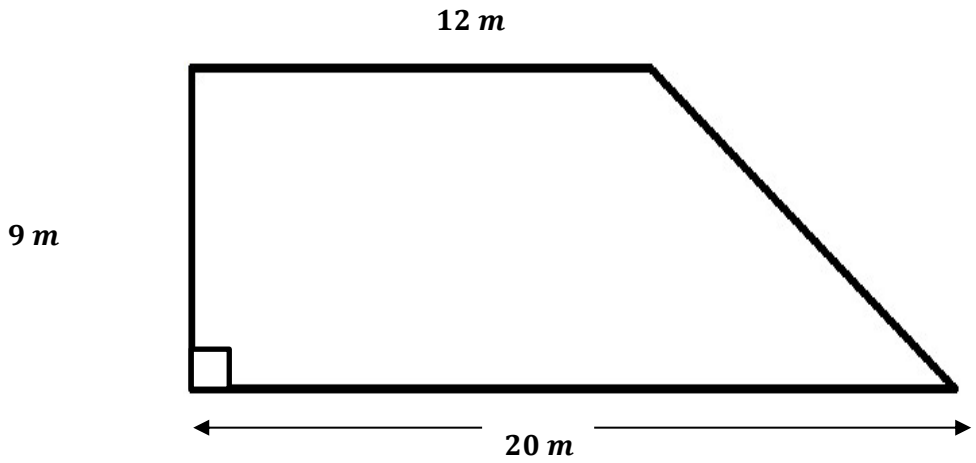
Practice for the Level 4 Block Test 3 - Non-Calculator		
1	Calculate (a) $7\frac{2}{5} - 3\frac{1}{8}$ (b) $3\frac{1}{2} \times \frac{5}{14}$ (c) $2\frac{1}{6} \div 1\frac{4}{9}$	2 2 2
2	Solve the following equations (a) $7x - 1 = 3x + 19$ (b) $3(2x + 1) = 27$ (c) $2(x - 5) = 3(x + 8)$	2 2 2
3	Solve the inequality $5x - 2 > 2x - 5$	2
4	(a) Form an expression for the area of this rectangle  $2\ cm$ $(5x - 6)\ cm$ (b) A second rectangle is drawn with an area which is equal to the first rectangle.  $6\ cm$ $(x + 2)cm$ Find (i) A value for x (ii) The area of each shape	1 3 1
5	Share £360 in the ratio 1:2:3	3

Practice for Level 4 Block Test 3 - Calculator		
1	Jamie saves the same amount of money each week. In six weeks he saves £72 (a) How much money has he saved after 10 weeks? (b) How long wil it take for him to save £185?	 2 1
2	Two workmen take 12 hours to complete a job. How long will the job take if there are 3 workmen?	2
3	Calculate the volume of these shapes (a)  (b) 	 2 2
4	This cuboid has a volume of $2.4\ litres$. Calculate the height of the cuboid 	3
5	Calculate the surface area of this cuboid 	3

6	Calculate the length of the missing side in these right-angled triangles (a)  (b)  	3 3
7	Calculate the perimeter of this shape  	4

Non-Calculator – Answers		
1	(a) $4\frac{11}{40}$ (b) $\frac{5}{4}$ (c) $\frac{3}{2}$	
2	(a) $7x - 1 = 3x + 19,\ 4x = 20,\ x = 5$ (b) $3(2x + 1) = 27,\quad 2x + 1 = 9,\ x = 4$ (c) $2(x - 5) = 3(x + 8),\ 2x - 10 = 3x + 24,\ x = -34$	
3	$5x - 2 > 2x - 5,\qquad 3x > 3,\qquad x > 1$	
4	(a) Area is $2(5x + 6)$ or $10x - 12$ (b) (i) $2(5x + 6) = 6(x + 2)$ $10x - 12 = 6x + 12,\ 4x = 24,\ x = 6$ (ii) The area is $(30 - 6) \times 2 = 48\ cm^2$	
5	£60: £120: £180	3
	Calculator – Answers	
1	£12 per week, £120 in 10 weeks. 16 weeks to save £185	
2	8 hours	
3	Volume of cuboid is $9 \times 7 \times 6 = 378\ cm^3$ Volume of cylinder is $\pi \times 5^2 \times 13 = 1021\ cm^3$	
4	$2.4\ litres = 2400\ cm^3,$ $2400 = 20 \times 8 \times height,\ height\ is\ 15\ cm$	
5	Surface area is $2 \times (11 \times 5 + 5 \times 7 + 7 \times 11) = 334\ cm^2$	
6	(a) $x = \sqrt{5^2 + 24^2} = 24.5\ cm$ (b) $a = \sqrt{15^2 - 7^2} = 13.3\ cm$	
7	Using Pythagoras to find the sloping side $\sqrt{9^2 + 8^2} = 12\ m$ The perimeter is $12 + 12 + 9 + 20 = 53\ m$	