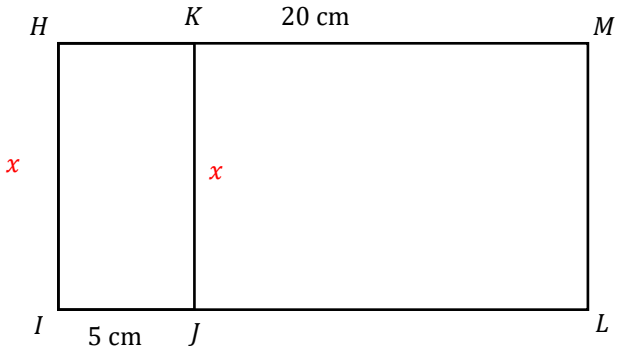
Similar Shapes Mark Scheme		
1(a)	Similar shapes are enlargements of each other, i.e. they have same angles, but all sides have changed by the same scale factor.	[1] Scale factor used in explanation
1(b)	A and H	[1] Correct pair
	F and D	[1] Correct pair
	J and K and L	[1] Correct three
2	A and F	[1] Correct pair
	B and E	[1] Correct pair
	C and D and H	[1] Correct three
3(a)	$\frac{42}{14} = 3$	[1]
3(b)	$12 \times 3 = 36$ cm	[1]
3(c)	$51 \div 3 = 17$ cm	[1]
4(a)	$\frac{18}{12} = 1.5$	[1]
4(b)	$14 \times 1.5 = 21$ cm	[1]
4(c)	$AX : XD = 1 : 1.5$	[1] Correct ratio
	$AX = 10$ cm, $XD = 15$ cm	[1] Correct answers
5(a)	2	[1]
5(b)	$x = BE - BC = CE$ $BE = 4.4 \times 2 = 8.8$	[1] Correct BE
	$DE = y = 5 \times 2 = 10$	[1] Correct DE
6(a)	$\frac{48}{16} = 3$	[1]
6(b)	$3^2 = 9$	[1] Scale factor for area
	$9 \times 24 = 216$ cm^2	[1] Alternative methods available. 2 marks for correct answer via any method.

		
7	$\frac{x}{5} = \frac{20}{x}$	[1] Setting the unknown sides to a letter
	$x^2 = 100$ so $x = 10$	[1] Calculation of unknown
	$\frac{20}{10} = 2 \ \therefore$ scale factor $= 2$	[1] Proof of answer

END