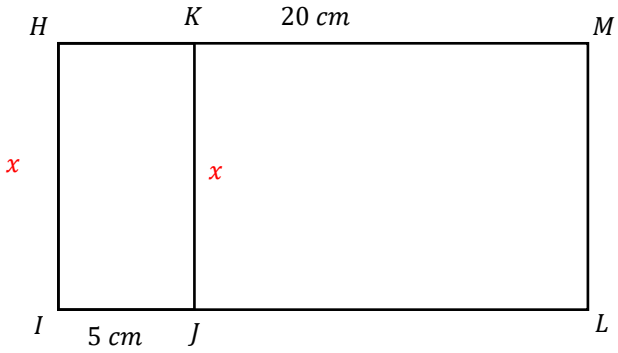
	Similar shapes Mark Scheme:	
1(a)	Similar shapes are enlargements of each other, i.e. they have same angles, but all sides have changed by the same scale factor.	**[1]**Scale factor used in explanation
1(b)	$A \text{ and } H$	**[1]** Correct pair
	$F \text{ and } D$	**[1]** Correct pair
	$J \text{ and } K \text{ and } L$	**[1]** Correct three
2	$A \text{ and } F$	**[1]** Correct pair
	$B \text{ and } E$	**[1]** Correct pair
	$C \text{ and } D \text{ and } H$	**[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