Paper: 1MA1	Paper: 1MA1/1F								
Question	Answer	Mark	Mark scheme	Additional guidance					
16	No and	C1	'No' and explanation with reference to multiplication or division						
Q1	explanation		eg No he's incorrect as you would multiply the sides by a number rather than add						

Paper: 1MA1	Paper: 1MA1/3F							
Question Answer		Mark	Mark scheme	Additional guidance				
9 (a)	Trapezium	B1	cao					
Q2 (b)	C and D	B1	cao	Accept in either order.				

Paper 1MA	Paper 1MA1: 2F								
Question	Working	Answer	Mark	Notes					
21 (a)		3.9	M1	for a ratio of $\frac{8.1}{5.4}$ (= 1.5) oe or $\frac{5.4}{8.1}$ (= 0.66) oe or $\frac{2.6}{5.4}$ (= 0.48) oe or $\frac{5.4}{2.6}$ (= 2.07) oe					
Q3			A1	сао					
(b)		2.05	M1 A1	for $\frac{5.4}{8.1} \times 6.15$ (= 4.1) or $\frac{2.7}{8.1} \times 6.15$ oe or ft "scale factor" from (a) cao					

Paper: 1MA1/3F							
Question	Working	Answer	Mark	Notes			
21		Shown	M1	method to divide a pair of corresponding sides, eg $7.5 \div 3 (= 2.5)$ or $3 \div 7.5 (= 0.4)$, or			
Q4		(supported)	C1	states scale factor is 2.5 or 0.4 or method to work out the size of an angle, eg tan ⁻¹ $\left(\frac{7.5}{10}\right)$ (= 36.8 to 36.9) shows or states that all sides are enlarged by the same factor or works out a pair of corresponding angles and states that the two triangles have the same angles			

Paper: 1MA1	/3F			
Question	Answer	Mark	Mark scheme	Additional guidance
27 (a)	9.6	M1	for a correct ratio,	Decimal equivalents can be truncated or rounded
			eg $\frac{12.6}{8.4}$ (= 1.5) or $\frac{8.4}{12.6}$ (= 0.66)	to 2 dp Accept equivalent methods to use a sf
			or $\frac{6.4}{8.4}$ (= 0.76) or $\frac{8.4}{6.4}$ (= 1.31) oe	eg $\frac{6.4}{2}$ + 6.4 (dicative of 1.5)
Q5		A1	cao	
(b)	10	M1	for $15 \div "1.5"$ or $15 \times "0.66"$ or ft their ratio from part (a) oe	Award the method mark for any (equivalent) complete method shown.
		A1	cao	

Paper: 1MA1	Paper: 1MA1/1F							
Question	Answer	Mark	Mark scheme	Additional guidance				
29 (a)	6	M1	for stating a similar triangle relationship eg $\frac{AB}{PQ} = \frac{AC}{PR} = \frac{CB}{RQ}$ or equivalent set of similar triangle expressions or for substitution giving a fraction form for a scale factor eg $\frac{10}{15} \left(=\frac{2}{3}\right)$ or $\frac{15}{10} \left(=\frac{3}{2}\right)$ or $\frac{9}{15} \left(=\frac{3}{5}\right)$ or $\frac{15}{9} \left(=\frac{5}{3}\right)$	Accept any equivalent fractions or decimal equivalents given to at least 2 dp truncated or rounded				
Q6		A1	cao					
(b)	2	P1	for showing understanding of the properties of congruent triangles by finding an unknown length using matching of two sides, eg EG, KG and 6, or HG, FG and 4 matching corresponding angles eg HEG with FKG and EHG with KFG	Can be shown by any complete statements that are unambiguous Can be shown in working using algebraic statements, or given by unambiguous marking on the diagram to confirm the relationship.				
		A1	cao					

Paper: 1MA1/1F							
Question	Answer	Mark	Mark scheme	Additional guidance			
²³ Q7	A & D	B1	cao				

Paper: 1MA1	aper: 1MA1/1F								
Question	Answer	Mark	Mark scheme	Additional guidance					
25	85 with working and reasons	M1 M1 A1	for correct use of corresponding angles eg $AEB = 63$ or co-interior angles eg $BCD = 180 - 148$ (= 32) or $DEB = 180 - 63$ (= 117) (dep) for a complete method to find angle EAB eg. $180 - "63" - (180 - 148)$ or $148 - "63"$ or "117" - (180 - 148) for $EAB = 85$ (identified)	Angles must be clearly labelled on the diagram or otherwise identified. Full solution must be seen. Correct method can be implied from angles on the diagram if no ambiguity or contradiction.					
Q8		C2 (C1	 (dep on M2) all working correct with all appropriate reasons stated. <u>Corresponding</u> angles are equal <u>Allied</u> angles / <u>Co-interior</u> angles add up to 180 <u>Angles</u> on a straight <u>line</u> add up to 180 <u>Angles</u> in a <u>triangle</u> add up to 180 The <u>exterior angle</u> of a triangle is <u>equal</u> to the sum of the <u>interior opposite angles</u>. for one reason relating to parallel lines clearly used and stated or for any two reasons clearly stated for their fully correct method) 	When reasons are given the key words underlined must be present. Reasons need to be linked to their method; any reasons not linked, do not credit. There should be no incorrect reasons given.					

Paper: 1MA1	Paper: 1MA1/3F							
Question	Answer	Mark	Mark scheme	Additional guidance				
25 (a)	16	M1	for a ratio of $\frac{20}{5}$ or $\frac{5}{20}$ or 4 or 0.25 or $\frac{5}{4}$ or $\frac{4}{5}$ or 1.25 or 0.8 oe					
		A1	cao					
(b)	5.5	M1	for $22 \times "0.25"$ or $22 \div "4"$ oe					
Q9		A1	oe					