Topic: Property of shape WJEC Past Paper Questions Tier: Higher

Higher Maths Nov 2017 P1 Q1

Look at the following descriptions of special quadrilateral shapes. Circle the correct name for each one.

(a)	Its diagonals intersect at 90°. Only one diagonal is a line of symmetry.					[1]		
(b)	Kite Rhombus Square Trapezium Rectangle Only one pair of sides are parallel.							
(c)		Rhombus es are equal. Is are not equal in	Square n length.	Trapezium	Rectangle	Rectangle [1]		
	Kite	Rhombus	Square	Trapezium	Rectangle			

Higher Maths Sample 2 P2 Q2

Circle either TRUE or FALSE for each statement given below.

[2]

STATEMENT		
Circles with diameters of equal length are congruent.	TRUE	FALSE
Regular pentagons whose perimeters are of equal length are congruent.	TRUE	FALSE
Scalene triangles that have the same three angles are congruent.	TRUE	FALSE
Rectangles with equal areas are congruent.	TRUE	FALSE

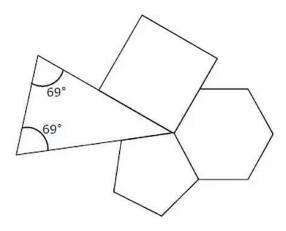
WJEC Past Paper Questions Tier: Higher Topic: Property of shape

Higher Maths Sample 2 P1_Q4

4. You will be assessed on the quality of your organisation, communication and accuracy in writing in this question.

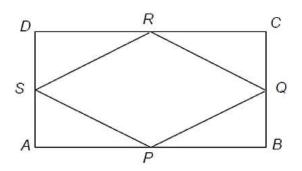
Prove that it is possible for a square, a regular pentagon, a regular hexagon and an isosceles triangle with two equal angles of 69° to meet at a point as shown below.

[6 + OCW 2]



Higher Maths Sample 1 P2 Q11

ABCD is a rectangle. P, Q, R and S are the mid-points of the sides.



- (a) Prove that triangles APS and CRQ are congruent. [3]
 - (b) Use your proof in part (a) to decide what is the special name given to the quadrilateral PQRS.Give your reason. [1]

WJEC Past Paper Questions Tier: Higher

Higher Maths Summer 2019 P1 Q12

In the following diagram, AE and BD are straight lines and BC = CE.

Is it possible to conclude that triangles ABC and DEC are congruent? You must show all your working and explain your decision.

[2]

[2]

Topic: Property of shape

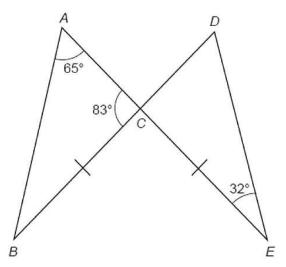
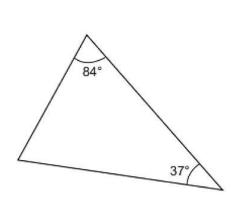


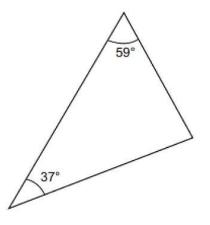
Diagram not drawn to scale

Higher Maths Nov 2017 P1 Q14

The two triangles shown below are not drawn to scale.



Which **one** of the following statements is correct? Give full reasons for your answer.



v v v

A: the triangles must be congruent

B: the triangles could be congruent

C: the triangles cannot be congruent

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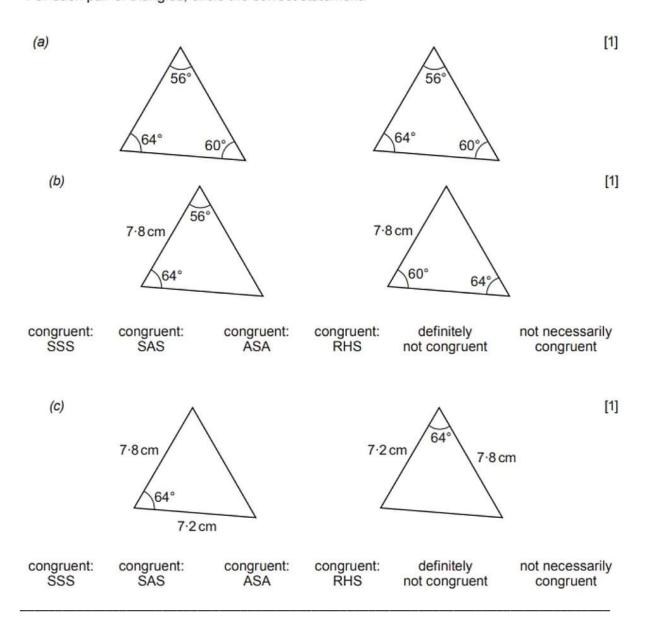
Higher Maths June 2017 P1 Q14

SSS, SAS, ASA and RHS are notations used to describe the conditions required to prove that two triangles are congruent.

[S ≡ Side, A ≡ Angle, R ≡ Right angle and H ≡ Hypotenuse.]

The following triangles are not drawn to scale.

For each pair of triangles, circle the correct statement.



WJEC Past Paper Questions Tier: Higher Topic: Property of shape

Higher Maths Nov 2016 P1 Q16

Triangle ABC is an isosceles triangle with $\widehat{ABC} = \widehat{ACB}$.

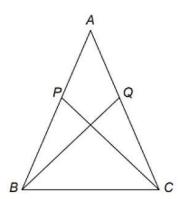


Diagram not drawn to scale

P and Q are points on AB and AC respectively such that AP = AQ.

Prove that triangle ABQ is congruent to triangle ACP. You must give reasons for each step of your proof.

[4]