

STUDENT NAME

1. Expand the abbreviations and give their Polish equivalents

1) SAS

2) CPCTC

3) HL

4) SOHCAHTOA

2. Give the full version of

1) AAS rule for congruency

.....

2) Pythagorean theorem.....

.....

3) Thales' theorem

.....

3. Start the sentences

1) is equal to a half the product of the apothem and the perimeter.

2) is equal to the square of the ratio of a pair of corresponding sides.

3) is preserved in a rotation.

4) is preserved in a projection.

5) in a semicircle is right.

6) one side into two congruent segments.

4. Finish the sentences

1) An exterior angle in a triangle

2) A segment joining the midpoints of two sides

3) If a right angled triangle is isosceles it must

4) If two altitudes of a triangle are congruent

5. Fill in the gaps

1) An angle of a triangle is an angle and to an interior angle of a triangle.

2) A joining the of two sides of a triangle is to the third side.

3) A is the longest Its goes through the of a circle.

4) A(n) angle by a is right.

6. Give the full version of these theorems in words and the casual names for those theorems.

1) 
(D..... B..... Theorem)

2) 
 (H..... L..... Postulate)

3) 
(N..... C..... Theorem)

7. Give a name of a mathematical object (different in each case) that is:

vertical	scalene
tangent	regular
increasing	rigid
convex	commutative
inconsistent	formal
conditional	interior
rotational	adjacent
coplanar	geometric
performed	corresponding

8. Solve problems giving full reasoning

An open rectangular box is made from a square sheet of cardboard by removing a square from each corner and joining the cut edges. If the cardboard is of edge 0.5 m, find the maximum volume of a box.