TEST PAPER: MATHEMATICS

Time: 50 Minutes **Class:** 8th C.B.S.E.

Max. Marks: 30 Marks **Date:** 6th June, 2018

Marking Scheme: *Four questions carry 10 marks each. Questions have 3 subparts each. Subparts (a) and (b) carry 3 marks each and subpart (c) carries 4 marks.*

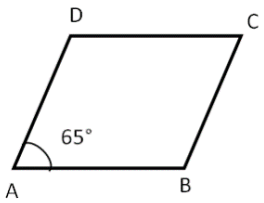
Question 1:

a. In the parallelogram ABCD if ∠A = 65°, find:

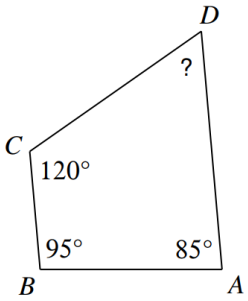
i. ∠B,

ii. ∠C

iii. ∠D



b. Find ∠D in the following figure:



c. Fill in the blanks and rewrite the statements in your answer booklet:

i. A quadrilateral has ____ angles, ____ diagonals, ____ sides and ____ vertices.

ii. The sum of interior angles in a pentagon is ____.

iii. The sum of exterior angles in a pentagon is ____.

iv. A quadrilateral in which opposite sides are parallel is called ____.

v. A quadrilateral in which diagonals are perpendicular to each other is called ____.

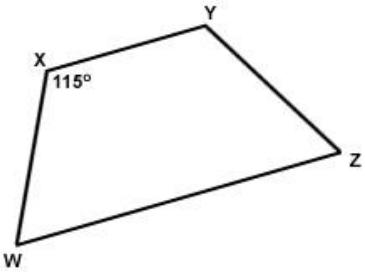
Question 2:

a. The figure alongside is an isosceles trapezium. Find the values of:

i. ∠w

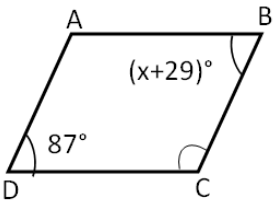
ii. ∠y

iii. ∠z



b. The sum of two numbers is 25. One of the numbers exceeds the other by 9. Find the numbers.

c. In the given figure, ABCD is a parallelogram. Find the values of x, ∠A and ∠C.



Question 3:

a. The difference between the two numbers is 48. The ratio of the two numbers is 7:3. What are the two numbers?

b. Solve the following linear equation: $9 - 2(x - 5) = x + 10$

a. i. Find the number of sides in a regular polygon when the measure of each exterior angle is 45°.

ii. Find the sum of all the interior angle of a polygon having 29 sides.