



TEST PAPER: MATHEMATICS

Time: 50 Minutes

Class: 8th I.C.S.E.

Max. Marks: 30 Marks

Date: 12th September, 2018

Marking Scheme: Three 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. Factorise by regrouping

(i) $(x - 2)^2 - (x - 3)^2$

(ii) $xy - pq + qy - px$

b. Factorise:

(i) $4x^2 + 12xy + 9y^2$

(ii) $x^2 + 6x + 8$

c. The length of a rectangle is twice its breadth. If the perimeter is 72 metre, find the length and breadth of the rectangle.

Question 2:

a. The sum of two consecutive multiples of 5 is 55. Find these multiples.

b. Find the sum of interior angles of a decagon.

c. Solve the following equations:

(i) $5(y - 1) = 3(2y - 5) - (1 - 3y)$

(ii) $2(x - 1) - 6x = 10 - 2(x - 4)$

Question 3:

a. Two angles of a quadrilateral measure 85° and 75° respectively. The other two angles equal. Find the measure of each of these equal angles.

b. Two adjacent angles of a parallelogram are $(2m + 25)^\circ$ and $(3m - 5)^\circ$. The value of m is

c. Aaron is 5 years younger than Ron. Four years later, Ron will be twice as old as Aaron. Find their present ages.