TEST PAPER: MATHEMATICS

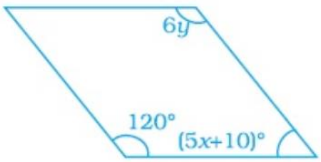
Time: 80 Minutes **Class:** 8th C.B.S.E.

Max. Marks: 40 Marks **Date:** 29th July, 2018

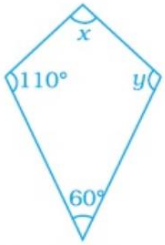
Marking Scheme: *Four questions carry 10 marks each. Questions have 3 subparts each. Subparts (a) and (b) carry 3 marks each and subpart (c) carries 4 marks.*

Question 1:

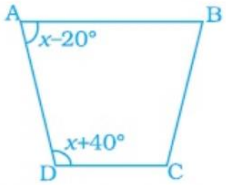
1. Find the values of x and y in the following parallelogram.



2. Find the values of x and y in the following kite.



3. Find the value of x in the trapezium ABCD given below.



Question 2:

1. If an exterior angle of a regular polygon is 45°, then find the number of its sides.

2. Draw a rectangle whose adjacent sides are 3 cm and 5 cm.

3. Construct a quadrilateral PQRS where, PQ= 5.4 cm, ∟P= 6°, ∟Q= 105°, ∟R=75° and ∟S= 120°

Question 3:

1. One angle of a parallelogram is of measure 60°. Draw a rough diagram and find the measures of the remaining angles of the parallelogram.

2. In a quadrilateral ABCD, the angles A, B, C and D are in the ratio 1: 2: 3: 4. Find the measure of each angle of the quadrilateral.

3. Draw a parallelogram whose adjacent sides are 2.8 cm and 4.8 cm.

Question 4:

1. One angle of a quadrilateral is 111° and the remaining three angles are equal. Find the other three angles.

2. State whether True or False.

(a) All rectangles are squares.
(b) All rhombuses are parallelograms.
(c) All square are rhombuses and also rectangles.
(d) All squares are not parallelograms.

3. Construct a quadrilateral ABCD, where AB= 4.3 cm, BC= 5.2 cm, CD= 6.5 cm, ∟B= 105° and ∟C= 60°.