



B.E.S.T. Group of Schools, Saudi Arabia

Class: 8
Subject: Mathematics

Worksheet - 2

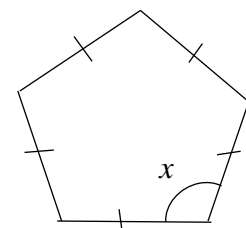
Examination: PMT (2018)
Block 4, 5, 6 & 7

1-mark questions:

1. A quadrilateral has pairs of adjacent angles
2. If the sides of a quadrilateral are produced in order, the sum of the four exterior angles so formed is
3. One angle of a concave quadrilateral is 180° .
4. In a quadrilateral PQRS, PR and QS are known as its
5. A quadrilateral has angles and diagonals.
6. In an isosceles trapezium, angles on the same base are
7. The diagonals of a square make an angle of each other.
8. A hexagon has diagonals
9. Angle sum of octagon is
10. Each interior angle of a regular decagon is

2-mark questions:

1. Find the measure of each exterior angle of a regular polygon of:
(i) 8 sides (ii) 12 sides
2. The angles of a quadrilateral are in the ratio 3: 5: 7: 9. Find the measure of the fourth angle.
3. ABCD is a parallelogram in which $\angle A = 110^{\circ}$. Find the measure of each of the angles $\angle B$, $\angle C$ and $\angle D$.
4. Two angles of a quadrilateral measures 55° each. The third angle is 140° . What is the measure of the fourth angle?
5. Two adjacent angles of a parallelogram are equal. What is the measure of each of these angles?
6. In the given figure, find the angle measure x .



3-mark questions:

1. Construct a rhombus ABCD the lengths of whose diagonals are 6cm and 8 cm.
2. An isosceles trapezium has a perimeter of 200 cm. What would be the length of the non-parallel sides if the parallel sides have length as 20 cm and 10 cm.
3. The angles of a pentagon are x° , $(x + 20)^{\circ}$, $(x + 40)^{\circ}$, $(x + 60)^{\circ}$, $(x + 80)^{\circ}$. Find each of these angles.
4. The perimeter of a parallelogram is 140 cm. If one of its sides is longer than the other by 10cm, find the length of each of its sides.
5. Two adjacent angles of a parallelogram are $(3x - 4)^{\circ}$ and $(3x + 16)^{\circ}$. Find the measure of each of these angles.

4-mark questions:

1. Construct a parallelogram PQRS given $PQ = 4.5$ cm, $QR = 3.5$ cm and $PR = 5.4$ cm.
2. Using the angle sum property of polygon to find the missing angles:
 - (i) 110° , 90° , 150° , 102° , 110° , 170° , x°
 - (ii) 110° , 120° , 95° , 140° , x°
3. Construct a quadrilateral ABCD in which $AB = 4.2$ cm, $BC = 6$ cm, $CD = 5.2$ cm, $DA = 5$ cm and $AC = 8$ cm
4. ABCD is a parallelogram. Find x , y and z .

