

DELHI PUBLIC SCHOOL, JAMMU
ASSIGNMENT-I
SESSION-2018-19

TOPIC: Understanding Quadrilaterals

CLASS:VIII

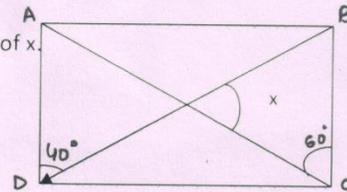
SUBJECT:MATHS

SECTION-A

- 1) The number of sides of regular polygon having exterior angle 45° is :-
 a) 6 b) 8 c) 10 d) 12
- 2) Sum of angles of regular pentagon is:-
 a) 900° b) 720° c) 540° d) 1080°
- 3) Formula for finding sum of angles of polygon is:-
 a) $(n-2) \times 180$ b) $(2n-1) \times 180$ c) $(n-2) \times 360$ d) None
- 4) Sum of exterior angles of polygon is:
 a) $360^\circ \times n$ b) $360^\circ \times 2n$ c) $180^\circ \times n$ d) $\frac{360}{n}$
- 5) Measure of each equal angles of polygon is:
 a) 45° b) 90 c) 60 d) 75
- 6) If three angles of a quadrilateral are 50° , 70° , and 90° , then measure of its fourth angle is:
 a) 150° b) 140° c) 130° d) 120°
- 7) Interior angle and exterior angle of polygon forms:-
 a) Linear pair b) complementary angles c) None of these
- 8) No. of sides of regular polygon with exterior angle 36° are:-
 a) 8 b) 10 c) 12 d) 14
- 9) No. of sides of decagon is:-
 a) 6 b) 8 c) 10 d) 12
- 10) Formula for finding interior angle of regular polygon:
 a) $\frac{(n-2) \times 180}{4}$ b) $\frac{(n-1) \times 180}{n}$ c) $\frac{(n-4) \times 180}{n}$ d) $\frac{(n-2) \times 180}{n}$

SECTION-B

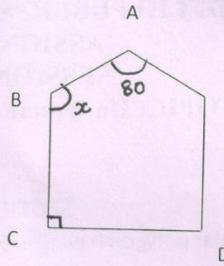
- 1) Two angles of quadrilateral are of measure 70° and 130° & other two angles are equal. Find the measure of each equal angle.
- 2) Explain why a rectangle is a convex quadrilateral.
- 3) In rectangle ABCD $\angle ADB = 40^\circ$ $\angle BCA = 60^\circ$. Find the value of x.



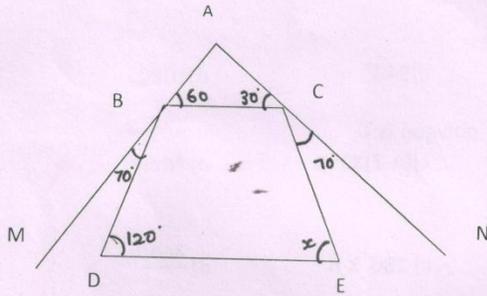
- 4) One angle of quadrilateral is twice of other and other three angle are equal. Find the measure of each angle of quadrilateral.

5) In figure, Find the value of x.

a)



b)



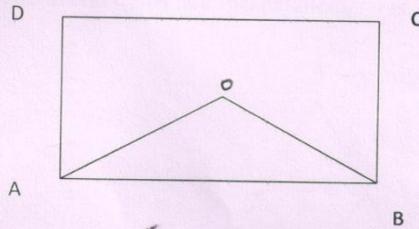
DELHI PUBLIC SCHOOL, JAMMU
ASSIGNMENT-II
SESSION-2018-19

TOPIC: Understanding Quadrilaterals

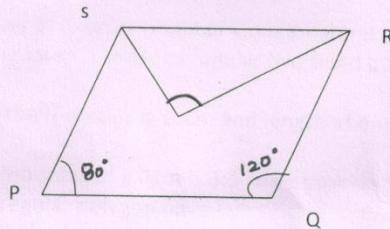
CLASS: VIII

SUBJECT: MATHS

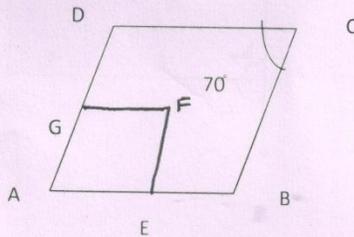
- 1) ABCD is a llgm in which AO and BO are bisectors of $\angle A$ and $\angle B$. Find the measure of $\angle AOB$.



- 2) PQRS is a Quadrilateral in which $\angle P = 80^\circ$ and $\angle Q = 120^\circ$. RO and SO are bisectors of $\angle R$ and $\angle S$. Find the measure of $\angle ROS$.



- 3) The four angles of quadrilateral are in the ratio 1:2:3:4. What is the measure of each angle?
4) The measure of angles of pentagon are $(x-10)$, $(x-20)$, $(x-30)$, $(x-40)$ and $(x-50)$. Find the value of x .
5) ABCD and AEF are two llm and $\angle DCB = 70^\circ$. Find the measure of $\angle AGF$ and $\angle BEF$.



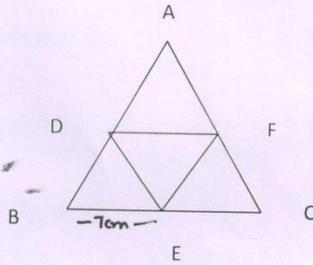
DELHI PUBLIC SCHOOL, JAMMU
ASSIGNMENT-III
SESSION-2018-19

TOPIC: Understanding Quadrilaterals

CLASS:VIII

SUBJECT:MATHS

- 1) The diagonals of a rhombus are of length 6cm and 8 cm. Find the length of side of rhombus.
- 2) In figure BEFD and CEDF are two parallelograms. If $BE = 7\text{cm}$. Find the length of BC.



- 3) Prove that sum of exterior angle of a quadrilateral is 360° .
- 4) Prove that the interior angle of regular five sided polygon is three times the exterior angle of regular decagon.
- 5) If the side of the rhombus is 10cm and length of one of its diagonal is 12cm . Find the length of other diagonal.
- 6) The ratio of two sides of a llgm is $3:5$ and its perimeter is 80cm . Find the sides of llgm.
- 7) Prove that a regular polygon have five sides, if its exterior angle is two-third of its interior angle.
- 8) In a llgm PQRS, find x, y, z and w .

