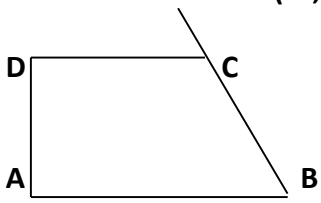
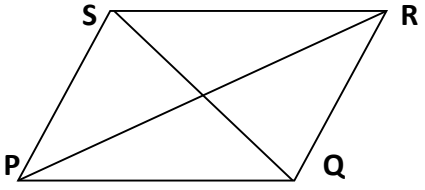
INDIAN SCHOOL MUSCAT – MIDDLE SECTION – DEPARTMENT OF MATHEMATICS – TERM :01 (2017 – 18)

NAME OF THE STUDENT : **CLASS : 8 SEC : SUB: MATHEMATICS**

DATE : 04 .05 .17 **TOPIC: UNDERSTANDING QUADRILATERALS** **WORKSHEET NO:02**

S.NO	MCQ	ANSWER
1	Which of the following is a regular polygon? a) square b)Rhombus c) Rectangle d)Parallelogram	
2	The number of sides of a regular polygon with each exterior angle 18^0 = _____ a) 18 b)20 c) 4 d) 36	
3	If sum of all the angles of a polygon is 900^0 ,the number of sides is _____ a) 6 b) 7 c) 8 d) 9	
4	The number of diagonals in a decagon is _____ a) 20 b) 35 c) 10 d) 25	
5	In a Rhombus MNOP, /M = 60^0 then /O = _____ a) 120^0 b) 90^0 c)180^0 d) 60^0	

S.NO	FILL IN THE BLANKS	ANSWER
6	The sum of all the interior angles of a nonagon is _____.	
7	_____ is a quadrilateral whose opposite sides and all the angles are equal.	
8	The sum of all the exterior angles of a polygon with 12 sides is _____	
9	Each exterior angle of a regular polygon with 15 sides is _____	
10	In a trapezium ABCD, AB||CD , /A = 65^0 ,then /D = _____ .	

S.NO	ANSWER THE FOLLOWING QUESTIONS
11	Perimeter of a rectangle is 220m. If one side exceeds the other by 50m,find the lengths of the sides
12	In a parallelogram ABCD, /DAB = $3y^0$, /ABC = $(2y -5)^0$, /BCD = $(3x+3)^0$. Find the values of x and y.
13	Two adjacent angles of a parallelogram EFGH are in the ratio 1 : 2. Find all the angles of the parallelogram.
14	ABCD is a rectangle. Its diagonals meet at O. Find the length of the diagonals if OC = 3x + 5 and OD = 2x + 9
15	Find the unknown values (x , y , z) a)  b) 
16	Find the number of sides of a regular polygon if each interior angle is 144^0
17	If the angles of a quadrilateral are in the ratio 2 : 3 : 5 : 8,then find the smallest and greatest angles.