NAME		ROLL NO.	

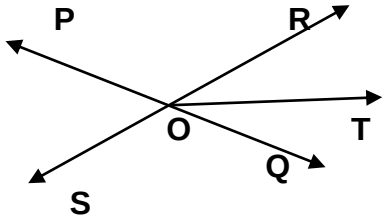
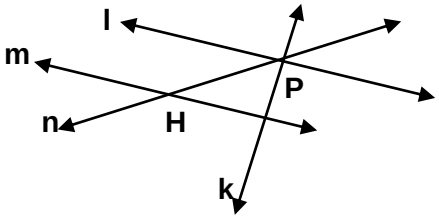
	INDIAN SCHOOL MUSCAT MIDDLE SECTION HALF YEARLY EXAMINATION 2019–20	
	SUBJECT – MATHEMATICS – ANSWER KEY	
CLASS 6		

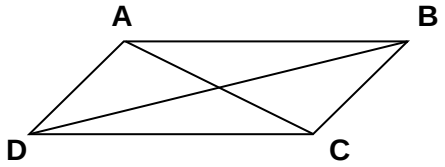
Q.NO1	SECTION 'A'
(a)	The HCF of 99 and 100 is _____a) 9900 b) 100 c) 1 d) 0 Ans: 1
(b)	The number of lines can be drawn through two distinct points is _____ a)2 b)3 c)1 d)0 Ans:1
(c)	16 805 rounded off to nearest thousand is _____ a)16000 b)17000 c)10000 d)17800 Ans:17000
(d)	179 ^{0} is an _____angle a)obtuse b)straight c) reflex d) acute Ans: obtuse
(e)	In $\triangle$ PQR PQ= QR and /Q = 90^0 then the triangle is a _____ triangle a)scalene b)obtuse angled c)right d)isosceles right Ans: Isosceles right triangle
(f)	The numeral for eighty five million six thousand seventeen is _____ a)85 060 017 b)85 600 070 c)85 006 017 d)85 006 071 Ans: 85 006 017
(g)	_____ thousands make 650 000 a) 65 b) 650 c) 6500 d) 605 Ans:650
(h)	The number divisible by 8 is _____ a) 1044 b) 3026 c) 7096 d) 2004 Ans:7096
(i)	The pairs of co prime numbers are _____ a) (12,21) b) (15,16) c) (24,16) d) (14,35) Ans: (15,16)
(j)	The diagonals of quadrilateral 'DEFG' are _____ and _____ a)DE,FG b) EF,GF c)DG,EF d)DF,EG Ans: DF,EG
(k)	Find all factors of 39 Ans: 1,3,13,39
(l)	Find the product of the successor and predecessor of 999 Ans: 1000 x 998 = 998000
(m)	Find the sum of place value and face value of 5 in 835219 Ans: 5005
(n)	Find the number of whole numbers between 565 and 705 Ans : 139
(o)	Name the property : 17+ (31+ 12) = (17+31) + 12 Ans: Associative property under addition
(p)	How many right angles do you make if you start facing North and turn anticlockwise to East ? Ans: 3

(q)	**What fraction of a clockwise revolution does the hour hand of a clock turn through when it goes from 1 to 7?** **Ans: ½**
(r)	**Find the predecessor of least 6 digit number.** **Ans:99999**
(s)	**Name two quadrilaterals having unequal diagonals** **Ans: Parallelogram , Rhombus (or any other)**
(t)	**If two lines have one common point, name the pair of lines.** **Ans: Intersecting lines**

Q.NO	SECTION 'B'
(2)	**Find the sum by suitable re arrangement : 1563 + 202 + 1298 + 437** **Ans: (1563+ 437) + (202 + 1298)** **2000 + 1500 = 3500**
(3)	**Estimate 67 + 343 + 2750 by rounding off each number to its greatest place .** **Ans: 70 + 300 + 3000 = 3370**
(4)	**Test the divisibility of 64968 by 6 (show working)** **Ans: Divisible by 2** **Divisible 3** **Divisible by 6**
(5)	**Draw any ∆PQR. Mark a point "S"in its interior and a point "T" in its exterior.** **Ans: Drawing triangle** **Marking points**
(6)	**Name the triangles from the following measurements** **a) ∆ ABC /A = 60^0, /B= 70^0, /C= 50^0** **b) ∆ PQR PQ = QR = PR** **c) ∆ MNO /N = 120^0 ; /M= 35^0 ; /O= 25^0** **d) ∆ DEF DE= 5 cm EF = 6 cm DF = 7 cm** **Ans : a) acute angled triangle b) equilateral triangle** **c) obtuse angled triangle d) scalene triangle**
(7)	**Where will the hour hand of a clock stops if it** **a) starts at 5 and makes ¼ of revolution clockwise ?** **b) starts at 2 and makes ¾ of revolution clockwise ?** **Ans : a) at 8 b) at 11**

Q.NO	SECTION 'C'
(8)	**Find the HCF of 60 , 84 and 132** **Ans : Finding HCF of 60 and 84 by division method . HCF= 12** **Finding HCF of 12 and 132 by division method . HCF = 12**
(9)	**Simplify and find the value : 12 + (24 ÷ 4) × 3 – 1** **Ans : 12 + 6 x 3 – 1** **12 + 18-1** **30 -1 = 29**
(10)	**Find the value using suitable property : 345 x 999** **Ans : 345x (1000-1)** **345 x 1000 - 345 x 1= 345000 – 345 = 344655**
(11)	**If a box of chocolates costs ₹ 75 and a packet of biscuits costs ₹ 25 , what is the total cost of 120 boxes of chocolates and 200 packets of biscuits ?**

	Ans: cost of coco…. = 75 x 120 = 9000 **Cost of biscuits = 25x 200 = 5000** **Total cost = 14 000 Rs**
(12)	**Find the LCM of 18 , 30 and 45 by Division method** **Ans: Finding LCM by division method** **Ans : 90**
(13)	**Shankar sold 56 English books for ₹ 125 per book and 56 Hindi books for ₹ 75 per book. Find the total amount he received.** **Ans: 56 x 125 + 56 x 75** **56 x (125 + 75)** **56 x 200 = 11200 Rs**
(14)	**From the following figure** **a) Identify any three angles** **b) Write any four Rays** **c) Name two angles having common ray OT ?**  **Ans: a) any three angles** **b) any four rays** **c) /POT , /SOT**
(15)	**From the following figure identify** **a) a pair of intersecting lines** **b) a pair of parallel lines** **c) meeting point of line 'm' and line 'n'**  **a) Line n , line k or any other pair** **b) Line l, line m** **c) H**

Q.NO	SECTION 'D'
(16)	**a) Find the product by suitable re arrangement : 50 × 125 × 8 × 4** **b) Find the difference between the predecessor of 1000 and the successor of 99.** **Ans : a) (50 x 4) x (125 x 8)** **200 x 1000 = 200000** **b) 10989 -910 = 10079**
(17)	**Find the value using suitable property : 574 × 177 + 574 × 22 + 574** **Ans : 574 x (177 + 22 + 1)** **574 x 200 = 114800**
(18)	**Test the divisibility of 574321 by 11 (show working)** **Ans: 5 +4+2 = 11** **1+3+7 = 11** **Diff = 0 divisible by 11** **574321 is divisible by 11**

(19)	**Three women go out together for their morning walk.Their steps measure 60 cm, 75 cm and 120 cm respectively. What is the minimum distance each should walk so that all can cover the same distance ?** **Ans: Find the LCM of 60cm,75 cm and 120 cm** **LCM = 600 cm** **Minimum distance = 600 cm**
(20)	**Draw a circle of any radius and** **a) mark the centre "O" b) draw any diameter and name it c) draw a chord AB** **d) shade a sector e) mark point "S" in interior and "T" in the exterior of the circle.** **Ans : Drawing circle and marking all**
(21)	**From the following quadrilateral ABCD write** **a)a pair of adjacent sides** **b)a pair of opposite angles** **c)a pair of diagonals** **d)a pair of opposite sides** **Ans : a) AB, BC or any other pair** **b) $\underline{\angle A}$, $\underline{\angle C}$ or any other pair** **c) AC,BD** **d) AD , BC any other pair**