



**INDIAN SCHOOL MUSCAT
MIDDLE SECTION
SECOND PERIODIC TEST 2019-20**



CLASS 8 MATHEMATICS (SET-A) – ANSWER KEY

Q.NO1	<u>SECTION A</u>	
(a)	The HCF of $6xy$ and $18x^2$ is	Ans: $6x$
(b)	$(7x^2 + 14x) \div 7x =$	Ans: $x + 2$
(c)	Factorise: $(n + p)^2 - m^2 =$	Ans: $(n+p+m)(n+p-m)$
(d)	Factorise : $3y^4 - 12y =$	Ans: $3y(y^3 - 4)$

Q.NO2	<u>SECTION B</u>	
(a)	Factorise : $2x^2 - 3xy + 4x - 6y$	$= x(2x-3y) + 2(2x-3y)$ $= (2x-3y)(x+2)$
(b)	Factorise : $m^2 + 2m - 35$	$= m^2 + 7m - 5m + 35$ $= m(m+7) - 5(m+7)$ $= (m - 5)(m + 7)$
(c)	Factorise : $9m^2 - 24m + 16$	$= (3m)^2 - 2 \times 3m \times 4 + 4^2$ $= (3m - 4)^2$ $= (3m - 4)(3m - 4)$
(d)	Construct a rhombus PQRS given diagonals PR = 7.5 cm and QS = 5.8 cm. Drawing PR , drawing perpendicular , correct marking 2.9 cm , completing.	
(e)	Construct a quadrilateral PQRS in which PQ = 5.5 cm, QR = 4.5 cm, RS = 5.2 cm, PR = 6 cm, and PS = 6.5 cm. Drawing PQ , getting R , getting S , completing .	

Q.NO	<u>SECTION - C</u>	
3	Construct a quadrilateral PQRS in which PQ = 5 cm, QR = 4.5 cm, PS = 6cm, $\angle P = 120^\circ$ and $\angle Q = 80^\circ$. Drawing PQ , drawing $\angle P$, drawing $\angle Q$, marking R and S and completing	
4	Simplify $20m^2n^2(x^2 + 8x + 16) \div 5mn(x + 4)$ $= 20m^2n^2(x+4)^2 \div 5mn(x+4)$ $= 20m^2n^2(x+4) \div 5mn$ $= 4mn(x+4)$	