



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



CLASS 8 - MATHEMATICS (SET-B) – ANSWER KEY

Q.NO1	<u>SECTION A</u>	
(a)	The HCF of the terms $9x^2$ and $3xy$ is	Ans. $3x$
(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 : $m^2 + 2m - 35$	$= m^2 + 7m - 5m + 35$ $= m(m+7) - 5(m+7)$ $= (m-5)(m+7)$
(b)	Factorise : $2x^2 - 3xy + 4x - 6y$	$= x(2x-3y) + 2(2x-3y)$ $= (2x-3y)(x+2)$
(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 with a side 5.6 cm and an angle 80° . Drawing base . Drawing angle 80° , 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, $PS = 6$ cm, $\angle P = 120^\circ$ and $\angle Q = 80^\circ$. Drawing PQ , drawing $\angle P$, drawing $\angle Q$, marking R and S and completing	
4	Simplify: $20 m^2 n^2 (y^2 - 12y + 36) \div 10mn (y - 6)$ $= 20 m^2 n^2 (y - 6)^2 \div 10mn (y - 6)$ $= 2m n (y - 6)$	