

CLASS – IX

SUBJECT – MATHS

Q. 1 The value of $ au$	t is				
(a) 3.24	(b)) 3.242	(c) 3.15	(d) 3.14159265	
Q. 2 Between two irrational numbers $\sqrt{2}$ and $\sqrt{3}$, there be					
(a) No irrational number			(b) No rational number		
(c) Infinite irrational number			(d) only one irrational number.		
Q. 3 To determine a line, the number of points required is					
(a) 1	(b) 2	(c) 3	(d) Infinite.		
Q. 4 If the sides o equal to	f a triangle ar	e produced in	order, then the sum of t	the exterior angles so formed is	
(a) 90 ⁰	(b) 180 ⁰	(c) 270 ⁰	(d) 360 ⁰	
Q. 5 If $\sqrt{3} = 1.732$ and $\sqrt{2} = 1.414$ the value of $\frac{1}{\sqrt{3} - \sqrt{2}}$ is					
a. 0.318	(b)) 3.146	(c) 1/ 3.146	$(d)\sqrt{1.732} - \sqrt{1.414}$	
Q. 6 The expansion	n of (a – 2b – 3	c) ² is –			
(a) $a^2 + 2b^2 + 3c^2 + 4ab + 12bc + 6ac$			(b) $a^2 + 4b^2 + 9c^2 + 2ab + 2bc + 2ca$		
(c) $a^2 - 4b^2 - 9c^2 - 4ab + 12bc - 6ac$			(d) $a^2 + 4b^2 + 9$	(d) $a^2 + 4b^2 + 9c^2 - 4ab + 12bc - 6ac$	
Q. 7 Divide ($\sqrt{3} + \sqrt{2}$ Q. 8 In fig (4) AB = 120°. Find x	CD, <u>/</u> APQ =		÷*	$p \rightarrow 0$	
Q. 9 In fig (5) ABC AB = CD and A BC = DC.					
Q. 10 In fig (6) ABC AB = AD and A BC = DC.					

Q. 11 The angles of a quadrilateral are in the ratio 3:4:5:6. Find al the angles of the quadrilateral.

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- Q. 12 Factorize : $(x y)^3 + (y z)^3 + (z x)^3$
- Q. 13 Write $(2x 3y 4z)^2$ in expanded form.
- Q. 14 In a \triangle ABC, $\angle A + \angle B = 100^{\circ}$, and $\angle B + \angle C = 140^{\circ}$. Find the measure of each of the angles of the triangle.
- Q. 15 If x + y + z = 0 show that $x^3 + y^3 + z^3 = 3xyz$.

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