

MULTIPLE CHOICE TYPE QUESTIONS

For CBSE 2025 Exams - Mathematics - Class 10

Cn	apter v1 - R	teat Number	S					
Q01.	The smallest prime	The smallest prime number is						
	(a) 0	(b) 1	(c) 2	(d) 3				
Q02.	The sum of first fiv	The sum of first five prime numbers is						
	(a) 26	(b) 15	(c) 39	(d) 28				
Q03.	Total prime number	Total prime numbers between 1 and 100 are						
	(a) 31	(b) 25	(c) 22	(d) 20				
Q04.	The unit's digit obtained on simplifying 207×781×39×94 is							
	(a) 9	(b) 1	(c) 7	(d) 2				
Q05.	The number $\sqrt{3}$ is	a/an						
	(a) integer	(b) rational no.	(c) irrational no.	(d) None of these				
Q06.	The HCF and LCM of 6, 72 and 120 is, respectively							
	(a) 8, 360	(b) 6, 340	(c) 6, 360	(d) None of these				
Q07.	The total number of even prime numbers is							
	(a) 0	(b) 1	(c) 2	(d) infinite				
Q08.	$\frac{22}{7}$ is a							
	(a) prime no.	(b) an integer	(c) a rational no.	(d) an irrational no.				
Q09.	The sum of two numbers is 37 and their product is 342. The numbers are							
	(a) 18, 19	(b) 23, 14	(c) 24, 13	(d) 28, 9				
Q10.	A number is as bigger than 22 as much it is smaller than 72. The number is							
	(a) 92	(b) 47	(c) 24	(d) None of these				
Q11.	-							
	(a) 9696	(b) 24242	(c) 38784	(d) 4848				
Q12.	$5 + \sqrt{2} + \sqrt{3}$ is							
	(a) a natural no.	(b) an integer	(c) a rational no.	(d) an irrational no.				
Q13.								
	(a) 12	(b) 9	(c) 8	(d) 6				
Q14.	The number .211 21111 211111 is a							
	(a) terminating decimal							
	(b) non-terminating repeating decimal							
	(c) non-terminating decimal which is non-repeating							
	(d) None of these							
Q15.	If $m^n = 32$, where m and n are positive integers, then the value of n^{mn} is							
	(a) 32	(b) 25	$(c)5^{10}$	(d) 5^{25}				

Q16.	Prime factorization of	Prime factorization of 64 is					
	(a) 2^5	(b) 2^6	(c) 8×8	(d) 64×1			
Q17.	If p is a prime number	er and p divides k ² , the	en p divides				
	$(a) 2k^2$	(b) k	(c) 3k	(d) None of these			
Q18.	If the HCF of 85 and	153 is expressible in t	the form of $85 \mathrm{m} - 15$	3, then the value of n is			
	(a) 3	(b) 2	(c) 4	(d) 1			
Q19.	Given that LCM (91,	(26) = 182, then HCF	(91, 26) is				
	(a) 13	(b) 26	(c) 7	(d) 9			
Q20.	Out of the four numb	pers (i) $\left(\sqrt{5} - \frac{1}{\sqrt{5}}\right)^3$	(ii) 2.123 123	(iii) 2.123123			
	(iv) $\left(2\sqrt{3} - \sqrt{2}\right)\left(2\sqrt{3}\right)$	$(3 + \sqrt{2})$, the irrational	number is				
	(a) i	(b) ii	(c) iii	(d) iv			
Q21.	$7 \times 11 \times 13 + 6$ is						
	(a) a prime number		(b) a composite nu	ımber			
	(c) an even number		(d) None of these				
Q22.	If $p^n = (a \times 5)^n$, for p	on to end with the digit	zero a =	for any natural number n.			
	(a) any natural no.	(b) an odd no.	(c) any even no.	(d) None of these			
Q23.	HCF is always						
	(a) multiple of LCM(c) divisible by LCM		(b) factor of LCM				
			(d) Option a and c both				
Q24.	HCF(47, 61) =						
	(a) 2867	(b) 1	(c) 47	(d) 61			
Q25.	LCM(47, 61) =						
	(a) 2867	(b) 1	(c) 47	(d) 61			
Ch	apter 02 - Po	olynomials					
Q01.	_	•	d the products of its	zeroes as $\frac{1}{4}$ and -1 respectively			
Qu1.		omais with the sum an	d the products of its	4 and -1 respectively			
	is (-) 42 + + 1	(1.) 4-2	(-) 4 ² + 1	(1) 42 4			
	(a) $4X + X + 1$	(b) $4x + x + 4$	(c) $4x + x - 1$	(a) $4x - x - 4$			
Q02.	If $x^2 + \frac{1}{x^2} = 102$, the	(b) $4x^2 + x + 4$ on the value of $x - \frac{1}{x}$ is	S				
	(a) 8	(b) 10	(c) 12	(d) 13			
Q03.	The polynomial $p(x)$	$= x^2 + 2x + 5x^3 - 3$ is					
	(a) linear polynomial		(b) cubic polynomial				
004	(c) constant polynom		(d) quadratic polynomial				
Q04.							
005		(b) $x + 1$ tic polynomial $t^2 - 15$		(a) $x - x$			
Q05.	The zeroes of quadra (a) $\sqrt{15}$ $\sqrt{15}$	(b) $\sqrt{15}, \sqrt{12}$	$\begin{array}{cccc} & & & & & & \\ & & & & & & \\ & & & & $	(d) $\sqrt{15}$ 15			
	(a) $-\sqrt{15}, \sqrt{15}$	(0) $\sqrt{13}, \sqrt{12}$	(c) $\sqrt{13}, -\sqrt{12}$	(u) $\sqrt{13}$, -13			
Q06.	A quadratic polynom	nials, the sum and prod	uct of whose zeroes	are $-\frac{1}{4}$ and $\frac{1}{4}$ respectively, is			

(a)
$$4x^2 + x +$$

(b)
$$x^2 - 3x + 2$$

(a)
$$4x^2 + x + 1$$
 (b) $x^2 - 3x + 2$ (c) $x^2 + 3x - 2$

$$\begin{cases} 20\% & \text{if } \begin{cases} x + -x \\ x \end{cases} \end{cases}$$

Q07. If
$$\left(x + \frac{1}{x}\right) = 3$$
, then $x^2 + \frac{1}{x^2}$ is equal to

(a)
$$\frac{82}{9}$$

(b)
$$\frac{10}{3}$$

Q08. If
$$x^{1/3} + y^{1/3} + z^{1/3} = 0$$
, then

(a)
$$x + y + z = 0$$

(b)
$$x + y + z = 3xyz$$

(c)
$$(x+y+z)^3 = 27xyz$$

(d)
$$x^3 + y^3 + z^3 = 0$$

Q09. If
$$p(x) = 3x^2 - 5x$$
, then $p(2) =$ _____:

Q10. The quadratic polynomials whose zeroes are
$$\frac{3}{5}$$
 and $-\frac{1}{2}$, is

(a)
$$10x^2 - x - 3$$

(a)
$$10x^2 - x - 3$$
 (b) $10x^2 + x - 3$ (c) $10x^2 - x + 3$

(c)
$$10x^2 - x +$$

Chapter 03 - Pair of Linear Equations in two Variables

Q01. The solutions of the equation 2x - y - 5 = 0 are

(a)
$$x = 2, y = -1$$

(b)
$$x = 2, y = 1$$

(c)
$$x = 1, y = -1$$

(d)
$$x = -2, y = 1$$

The sum of digits of a two digit number is 9. Also, 9 times this number is twice the number Q02. obtained by reversing the order of the digits. The number is

The system of equations kx - y = 2 and 6x - 2y = 3 has a unique solution when Q03.

(a)
$$k = 0$$

(b)
$$k \neq 0$$

(c)
$$k = 3$$

(d)
$$k \neq 3$$

A boat can row 1 km with stream in 10 minutes and 1 km against the stream in 20 minutes. The O04. speed of the boat in still water is

(a) 1.5 km/hr

(b) 3 km/hr

(c) 3.4 km/hr

(d) 4.5 km/hr

A boat goes 24 km upstream and 28 km downstream in 6 hours. It goes 30 km upstream and 21 O05. km downstream in 6 hours and 30 minutes. The speed of the boat in still water is

(a) 4 km/hr

(b) 6 km/hr

(c) 10 km/hr

(d) 14 km/hr

Point (4, 3) lies on the line Q06.

(a)
$$3x + 7y = 27$$

(b)
$$7x + 2y = 47$$

(c)
$$3x + 4y = 24$$

(d)
$$5x - 4y = 1$$

The speed of train 150 m long is 50 km/hr. The time it will take to cross a platform 600 m long Q07.

(a) 50 sec

(b) 54 sec

(c) 60 sec

(d) None of these

O08. The graph of an equation y = -3 is a line which will be

(a) parallel to x-axis

(b) parallel to y-axis

(c) passing through origin

(d) on x-axis

The value of k for which kx + 2y = 5 and 3x + y = 1 have unique solution, is Q09.

(a) k = -1

(b) $k \neq 6$

(c) k = 6

(d) k = 2

The graph of the equation x - y = 0 is Q10.

(a) parallel to x-axis

(b) parallel to y-axis

(c) passing through origin

(d) None of these

Chapter 04 - Quadratic Equations

O01. The general form of a quadratic equation is

(a)
$$ax^2 + bx + c$$

(b)
$$ax^2 + bx + c = 0$$
 (c) $a^2x + b$

(c)
$$a^2x + b^2$$

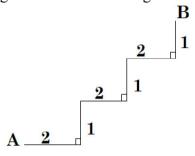
(d)
$$ax^2 + bx + c = 0$$
, $a \ne 0$

Q02.	-	ble solutions of a quad		(d) None of these		
Q03.	(a) exactly two The discriminant of the discr	(b) at most two the equation $bx^2 + ax + b$	(c) at least two $c = 0$ h $\neq 0$ is given h			
Q05.		(b) $\sqrt{a^2 + 4bc}$		(d) $\sqrt{b^2 + 4ac}$		
Q04.		ratic equation are equa	() •	() •		
Q04.	(a) 1	(b) 0	(c) greater than 0	(d) less than 0		
Q05.	The roots of $3x^2 - 7x$					
	(a) rationals		(c) positive integers	(d) negative integers		
Q06.	Q06. The roots of equation $x + \frac{16}{x} = 10$ are					
	(a) 4, 6	` '	· / ·	(d) 2, 8		
Q07.	If α , β are the roots of	of $x^2 + px + q = 0$, then	the value of $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$ is			
	(a) $\frac{p^2 - 2q}{q}$	(b) $\frac{2q-p^2}{q}$	(c) $\frac{p^2 + 2q}{q}$	(d) None of these		
Q08.	If the roots of $ax^2 + 1$	bx + c = 0 be equal, the	n the value of c is			
	(a) b	(b) $\frac{b}{2a}$	$(a) = \frac{b^2}{a^2}$	$\frac{b^2}{}$		
	$\frac{a}{2a}$	$\frac{(b)}{2a}$	$\frac{(c)}{4a}$	$\frac{(u)}{4a}$		
Q09.	If the sum of the root	ts of an equation is 6 ar	nd one root is $3 - \sqrt{5}$,	then the equation is		
	(a) $x^2 - 6x + 4 = 0$	(b) $x^2 - 4x + 6 = 0$	(c) $x^2 - 6x + 5 = 0$	(d) None of these		
Q10.	If α , β be the roots of	$f ax^2 + bx + c = 0, then$	the value of $\alpha^2 + \beta^2$ is	\mathbf{S}		
	(a) $\frac{b^2 - 2ac}{2a}$	(b) $\frac{b^2 - 4ac}{2a}$	(c) $\frac{b^2 - 2ac}{a^2}$	(d) $\frac{b^2 + 4ac}{2ac}$		
	Za	Za	a	Zac		
Ch	apter 05 - Ai	$rith metic\ Pr$	ogression			
Q01.	If a, b, c are in A.P.,	then				
	(a) $a+c=2b$	(b) $b + a = 2c$	(c) $c = \frac{a+b}{2}$	(d) $a+c=b$		
Q02.	Next term of the A.P		2			
			(c) 18	(d) 19 ference is 3, then the first term		
Q03.	The sum of 6 th and 7 of A.P. is	th terms of an A.P. is 3	9 and the common dif	ference is 3, then the first term		
	(a) 2	(b) -3	(c) 4	(d) 3		
Q04.	The sum of three nur			its common difference is		
005	(a) 2	(b) 4	(c) 5	(d) 3		
Q05.		e end of the A.P. 7, 11,		(d) 110		
Q06.	(a) 135 The sum of first 10 n	(b) 125	(c) 115	(d) 110		
Q00.	(a) 50	(b) 60	(c) 55	(d) 65		
Q07.	The common differen	nce of the A.P. $8\frac{1}{8}$, $8\frac{2}{8}$	$\frac{2}{8}$, $8\frac{3}{8}$, is			
	(a) $\frac{1}{8}$	(b) $1\frac{1}{8}$	(c) $8\frac{1}{8}$	(d) 1		
	` ′ 0	` ′ O	` ′ Q	< /		
α	O	O	0			
Q08.	O	umbers up to 300 are d (b) 15	ivisible by 17? (c) 17	(d) 19		

- (a) 0.5 n(n+1)
- (b) $\frac{n^2}{2}$
- (c) n+2
- (d) 0.5 + (n+1)
- The fifteenth term of the arithmetic progression $-23, -19, -15, \dots$ is O10.
 - (a) 30
- (b) 31
- (c) 32

Chapter 06 - Triangles

- Given that $\triangle ABC \sim \triangle DEF$. If DE = 2AB and BC = 3 cm, then EF is equal to
 - (a) 12 cm
- (b) 2 cm
- (c) 1.5 cm
- O02. See the figure given below. The straight line distance between A and B is



- (a) $5\sqrt{3}$
- (b) 5
- (d) $5\sqrt{2}$
- In a triangle ABC, $\angle A = 25^{\circ}$ and $\angle B = 35^{\circ}$; AB = 16 units. Q03.

In another triangle PQR, $\angle P = 25^{\circ}$ and $\angle Q = 35^{\circ}$; PQ = 4 units.

Which of the following is true?

- (a) $\triangle ABC = \triangle PQR$ (b) $\triangle ABC \approx \triangle PQR$ (c) $\triangle ABC \cong \triangle PQR$ (d) $\triangle ABC \sim \triangle PQR$

- The altitude of an equilateral triangle, having the length of its side as 12 cm, is O04.
 - (a) $6\sqrt{2}$ cm
- (b) 6 cm
- (c) 8.5 cm
- (d) $6\sqrt{3}$ cm

- The triangles are similar, if O05.
 - (a) their corresponding angles are equal(c) Options 'a' and 'b' both are correct
- (b) their corresponding sides are proportional
- (d) there is at least one angle of 90°
- If in two triangles $\triangle DEF$ and $\triangle PQR$, $\angle D = \angle Q$ and $\angle R = \angle E$, then which of the following is O06. not true?

(a)
$$\frac{DE}{QR} = \frac{DF}{PQ}$$
 (b) $\frac{DE}{PQ} = \frac{EF}{RP}$ (c) $\frac{EF}{PR} = \frac{DF}{PQ}$ (d) $\frac{EF}{RP} = \frac{DE}{QR}$

- All the equilateral triangles are always ____ O07.

- (b) Congruent (c) both (a) and (b) (d) None of these
- In \triangle ABC, D and E are points on the sides AB and AC respectively such that DE || BC. Q08.

If $\frac{AD}{DB} = \frac{2}{3}$ and AC = 18 cm, then AE is equal to

- (a) 5.2 cm
- (b) 6.2 cm (c) 7.2 cm
- In a right triangle ABC right angled at C, AC = BC. Then $AB^2 = \frac{1}{(d)} \times AC^2$. O09.

- If the three sides of a triangle are a, $\sqrt{3}$ a and $\sqrt{2}$ a, then the measure of the angle opposite to the Q10. longest side is
 - (a) 60°
- (b) 90°
- (c) 45°
- (d) 30°

Chapter 07 - Coordinate Geometry

- Q01. P is a point on x-axis at a distance of 3 units from y-axis to its left. The coordinates of P are
 - (a) (3, 0)
- (b) (0, 3)
- (c)(-3,0)
- (d)(0,-3)

Q02.	The coordinates	of the point where the l	ine $\frac{x}{a} + \frac{y}{b} = 7$ intersect	s y-axis are			
Q03.	(a) (a, 0) The area of the t	(b) (0, b) triangle OAB, the coord	(c) (0, 7b) inates of the points A(4	(d) (7a, 0) 4, 0), B(0, -7) and O is origin, is			
			(c) 28 sq.units				
Q04.	The line $\frac{x}{2} + \frac{y}{4} =$	The line $\frac{x}{2} + \frac{y}{4} = 1$ intersects the axes at P and Q, the coordinates of the midpoint of PQ are					
			(c)(0,4)	(d)(2,1)			
Q05.	The distance bet (a) 9 units	tween the lines $2x + 4 =$ (b) 1 unit		(d) 7 units			
Q06.							
(, , ,	(a) 10 units	tween the points (5 cos 3 (b) 1 unit	(c) 5 units				
Q07.							
	(a) -3	(b) 6	(c) 9	(d) 3			
Q08.		f triangle formed by the					
Q09.	(a) 4 units The points (1, 2)	(b) 6 units), (-5, 6) and (a, -2) are		(d) $4 + 2\sqrt{2}$ units			
	(a) -3	(b) 7	(c) 2	(d) 5			
Q10.		of line segment are (a, b)					
	(a) $\sqrt{a^2 + b^2}$	(b) $2\sqrt{a^2+b^2}$	(c) $\frac{2}{3}\sqrt{a^2+b^2}$	(d) None of these			
			3				
Ch	apter 08 -	Introduction	n to Trigono	metry			
Q01.	If $x = r \sin \theta$ and	$d y = r \cos \theta$, then the va	lue of $x^2 + y^2$ is				
	(a) r	(b) r ²	(c) $\frac{1}{r}$	(d) 1			
Q02.	The value of co	$\sec 30^{\circ} - \sec 60^{\circ}$ is					
	(a) 0	(b) 1	(c) 90°	(d) 50°			
Q03.		, then $\cot \theta$ is equal to					
	(a) $\frac{5}{2}$	(b) $\frac{4}{5}$	(c) $\frac{3}{4}$	(d) $\frac{3}{5}$			
	3	3	4	5			
Q04.		$\sec\theta\cot\theta - \csc\theta\tan\theta$		(n) F			
	(a) 0	(b) 1	(c) $2\sqrt{2}$	(d) $\sqrt{2}$			
Q05.	If $\cos\theta \times \frac{1}{\sec\theta} =$	= 1 and θ is an acute ang	le, then θ is				
	(a) 90°	(b) 60°	(c) 30°	(d) 0°			
Q06.	Triangle TRY is a right angled isosceles triangle, then $\cos T + \cos R + \cos Y$ is						
	(a) $\sqrt{2}$	(b) $2\sqrt{2}$	(c) $1 + 2\sqrt{2}$	(d) $1 + \frac{1}{\sqrt{2}}$			
Q07.	If triangles ABC	C and PRT are similar su	ch that $\angle C = \angle R = 90^{\circ}$	o and $\frac{AC}{AB} = \frac{3}{5}$, then sin T is			
	2	_	4	_			
	(a) $\frac{3}{5}$	(b) $\frac{5}{3}$	(c) $\frac{4}{5}$	(d) $\frac{5}{4}$			
O08.	If $k + 7 \sec^2 62^\circ$	$-7 \tan^2 62^\circ = 7$, then th	e value of k is				

- (a) 1
- (b) 0
- (c) 7
- (d) $\frac{1}{7}$

- The value of $\cot^2 \theta \left(\frac{1}{\sin \theta} \times \csc \theta\right)$ is

- (c) 2
- (d) -1

- $\frac{\sin \theta}{\sqrt{1-\sin^2 \theta}}$ can also be written as Q10.
 - (a) $\cot \theta$
- (c) $\frac{\sin \theta}{\sqrt{\cos \theta}}$
- (d) $\tan \theta$
- If $\sin 30^{\circ} \tan 45^{\circ} = \frac{\sec 60^{\circ}}{k}$, then the value of k is
 - (a) 1
- (c)3
- (d) 4

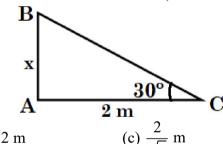
- Q12. $1 + \tan^2 \theta$ equals
 - (a) $\sec \theta$
- (b) $\sec^2 \theta$
- (c) $\sec 2\theta$
- (d) $\cot^2\theta$

- Q13. If $\csc \theta = \frac{13}{12}$, then

- (a) $\tan \theta = \frac{12}{5}$ (b) $\tan \theta = -\frac{5}{12}$ (c) $\tan \theta = \frac{12}{25}$ (d) $\tan \theta = \pm \frac{12}{25}$

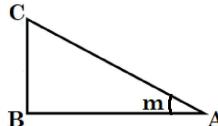
Chapter 09 - Applications of Trigonometry

Q01. In the figure given below, if AC = 2 m and BA = x, then x equals



- (a) 1 m
- (b) 2 m

- The angle of elevation of the top of a tower from the points at a distance of 4 m and 9 m from Q02. the base of the land in the same straight line with it, are complementary. Then the height of the tower is
 - (a) 4 m
- (b) 7 m
- (c) 12 m
- (d) 6 m
- The angle of elevation of the top of a tower from two points at distances 'a' and 'b' from the O03. base and on the same straight line with it are complimentary. The height of the tower is
 - (a) ab
- (b) \sqrt{ab}
- (c) $(ab)^2$
- In the figure given below, $\tan m = \frac{3}{4}$. If AB = 12 cm, then BC is
 - (a) 8 cm
- (b) 12 cm
- (c) 10 cm
- (d) 9 cm



A tower stands vertically on the ground, form a point on the ground, which is 15 m away from the foot of the tower, the angle of elevation of the top of the tower is found to be 60°. The height of tower is

(a) 3 m

(b) $15\sqrt{3}$ m

(c) 15 m

(d) $3\sqrt{15}$ m

Chapter 10 - Circles

The complement of 63° is

(a) 118°

(b) 28°

(c) 38°

(d) None of these

The supplement of 60° is O02.

(a) 30°

(b) 40°

(c) 120°

(d) None of these

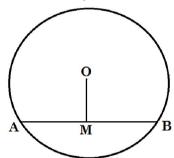
An angle which is greater than 180° but less than 360° is called O03.

(a) an acute angle

(b) an obtuse angle

(c) an adjacent angle (d) a reflex angle

O04. In the following figure, O is the centre of a circle and AB is chord of circle, whose length is 24 cm. If the length of the perpendicular OM on AB is 5 cm, the radius of the circle is



(a) 10 cm

(b) 12 cm

(c) 13 cm

(d) 14.5 cm

A tangent PQ at a point P of a circle of radius 5 cm meets a line through the centre O at a point Q so that OQ = 12 cm. Length PQ is

(b) 13 cm

(c) 8.5 cm

- (d) $\sqrt{119}$ cm
- If the radius of the circle is 13 cm and the chord is 10 cm, then the length of the perpendicular O06. drawn from the centre to the chord is

(a) 12 cm

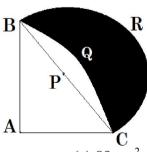
(b) 13 cm

(c) 8 cm

(d) None of these

Chapter 11 - Areas Related to Circles

In the given figure, ABC is quadrant of radius 14 cm and a semicircle is drawn taking BC as the diameter. The area of the shaded region is



(a) 102 cm^2

(b) 98 cm^2

(c) 89 cm^2

(d) 201 cm^2

If the biggest hand of a clock is 15 cm long, then the distance covered by it in 40 minutes will be O02.

(a) 31.5 cm

(b) 72.8 cm

(c) 24.1 cm

(d) None of these

The area of a triangle whose sides are respectively 3, 4 and 5 (in cm) is Q03.

(a) 6 cm^2

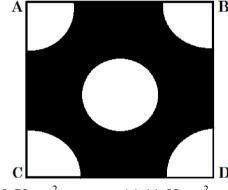
(b) 60 cm^2

(c) 30 cm^2

(d) 10 cm^2

The radius of circle is increased by 1 cm, then the ratio of the new circumference to the diameter O04. is (if diameter of new circle is considered)

- (a) $\pi:2$
- (b) $\pi + 1$
- (c) $\pi:1$
- (d) None of these
- Q05. A square and an equilateral triangle have equal perimeters. If the diagonal of the square is $6\sqrt{2}$ cm, then the area of the triangle is
 - (a) $16\sqrt{2} \text{ cm}^2$
- (b) $16\sqrt{3} \text{ cm}^2$
- (c) $12\sqrt{2} \text{ cm}^2$
- (d) None of these
- Q06. The area of a circle inscribed in an equilateral triangle is 48π sq.units. Then the perimeter of triangle (in units) is given as
 - (a) $72\sqrt{3}$
- (b) 72
- (c) $48\sqrt{3}$
- (d) 36
- Q07. The minute hand of a clock is $\sqrt{21}$ cm long. The area described by minute hand on the face of the clock between 7:00 am to 7:05 am is
 - (a) 4.5 cm^2
- (b) 6.6 cm^2
- (c) 5.5 cm^2
- (d) Can't be determined
- Q08. If the minute hands of two clocks are of length 3 cm and 4 cm respectively. The ratio of the areas in two clocks covered by the minute hands in $\frac{1}{2}$ hour will be
 - (a) 9:16
- (b) 4:9
- (c) 16:9
- (d) None of these
- Q09. From each corner of a square of sides 4 cm a quadrant of a circle of a radius 1 cm is cut and also a circle of a diameter 2 cm is cut. The area of the remaining portion of the square is (see the figure)



- (a) 10.25 cm^2
- (b) 9.72 cm^2
- (c) 11.52 cm²
- (d) None of these

Chapter 12 - Surface Areas and Volumes

- Q01. The curved surface area (in sq. units) of a cylinder with the diameter 2 units and height of 1 unit is
 - (a) π
- (b) 2π
- (c) 3π
- (d) 4π
- Q02. The volume (in cubic units) of cylinder of radius and height both of 1 unit is given by
 - (a) π
- (b) 2π
- (c) 3π
- (d) 4π
- Q03. The volume (in cubic units) of cone of radius and height both of 1 unit is given by
 - (a) π
- (b) 2π
- (c) $\frac{\pi}{3}$
- (d) 3π
- Q04. The area of an equilateral triangle is $\sqrt{3}$ m², then its side is
 - (a) $3\sqrt{3}$ m
- (b) $\frac{3\sqrt{3}}{4}$ m
- (c) 2 m
- (d) 4 m
- Q05. Volume of the cubes is in the ratio of 8:125. The ratio of their surface areas is
 - (a) 8:125
- (b) 2:5
- (c) 4:25
- (d) 16:25
- Q06. Volume (in cubic units) of a sphere of radius 3 units is given by
 - (a) 18π
- (b) 36π
- (c) 36
- (d) 54π
- Q07. Diameter of a sphere is 6 cm. It is melted and drawn into a wire of radius 0.2 cm. Then the length of the wire is

Q08. The surface area of the walls of a cuboidal room is (a) $2(l+b+h)$ (b) l b) l (c) $2(lb+b+l+h)$ (d) $2(l+b)h$ Q09. If a right circular cone of vertical height 12 cm has a volume of 616 cm³, then the base is (a) 6 cm (b) 7 cm (c) 8 cm (d) 9 cm Q10. If all the sides of a cube are doubled, then its area will become (a) 2 times (b) 3 times (c) 4 times (d) 8 times $\frac{l}{l}$ (d) 8 times $\frac{l}{l}$ (d) 8 times $\frac{l}{l}$ (d) 9 cm Q10. Weight of 40 eggs were recorded as given below. $\frac{l}{l}$ Weights (in gm) 85-89 90-94 95-99 100-104 105-109 No. of eggs 10 12 12 4 2 $\frac{l}{l}$ The lower limit of the median class is (a) 90 (b) 95 (c) 94.5 (d) 89.5 $\frac{l}{l}$ (d) 89.5 Q02. Mode is the value of the variable which has (a) maximum frequency (c) mean frequency (d) middle-most frequency (e) mean frequency (e) mean frequency (l) mode = 3 median - 2 mean (e) mode = 2 median - 3 mean (d) mode = median - 2 mean (e) mode = 2 median - 3 mean (d) mode = 3 median - 2 mean (e) mode = 2 median - 3 mean (d) mode = 3 median - mean Q04. What is the mode if mean and median are 10.5 and 9.6 respectively? (a) 7 (b) 7.8 (c) 8 (d) 8.4 $\frac{l}{l}$ (d) 16k (b) 15k (c) 12k (d) 14k $\frac{l}{l}$ (d) 16k $\frac{l}{l}$ (e) 15k (e) 12k (d) 14k $\frac{l}{l}$ (d) 16k $\frac{l}{l}$ (e) 16c (e) 2 (d) None of these (e) 16c (f) 16	000	(a) 6 cm	· /	m 	()	1	(d) None of	these
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		13	7		7		8	

- Q08. A bag contains 9 red, 7 white and 4 black balls. A ball is drawn randomly. The probability that the 'ball drawn is not red' is
 - (a) $\frac{9}{20}$
- (b) $\frac{9}{11}$
- (c) $\frac{2}{11}$
- (d) $\frac{11}{20}$
- Q09. If a die is thrown, and the probability of getting a number less than 5 is given by p, then which of the following is true for p?
 - (a) 1
- (b) 0
- (c) 0
- (d) p > 1
- Q10. If red face cards are removed from the deck of 52 playing cards, then the probability of getting a black jack is
 - (a) $\frac{2}{46}$
- (b) $\frac{2}{52}$
- (c) $\frac{4}{48}$
- (d) $\frac{2}{23}$



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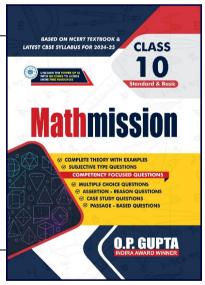
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