



Q.NO:01

S.NO	MCQ ( 1 MARK EACH )
(a)	The terms of the expression $5x^2 + 4y$ are _____ a) $5x$ & $4y$ b) $5x^2$ & $4$ c) $5x^2$ & $4y$ d) $5$ & $4y^2$
(b)	If $6:5 = 30:X$ then $X =$ _____ a) 25    b) 35    c) 11    d) 150
(c)	Perimeter of a square is 32 cm then its area is _____ a) $64 \text{ cm}^2$ b) $16 \text{ cm}^2$ c) $128 \text{ cm}^2$ d) $8 \text{ cm}^2$
(d)	The range of the set of observations 15 , 10, 12 ,5, 8 is _____ a) 10    b)12    c) 7    d) 8
(e)	Two angles of a triangle are $70^\circ$ and $60^\circ$ , then the third angle _____ a) $130^\circ$ b) $50^\circ$ c) $40^\circ$ d) $30^\circ$
(f)	The number of altitudes in a triangle is _____ a) 3    b) 1    c) 2    d) 4
(g)	$\triangle ABC \cong \triangle XYZ$ and $AB = XY$ , $BC = YZ$ then additional condition needed for SAS congruency is _____ (a) $CA = ZX$ (b) $\underline{B} = \underline{Y}$ (c) $\underline{A} = \underline{X}$ (d) $BC = YZ$

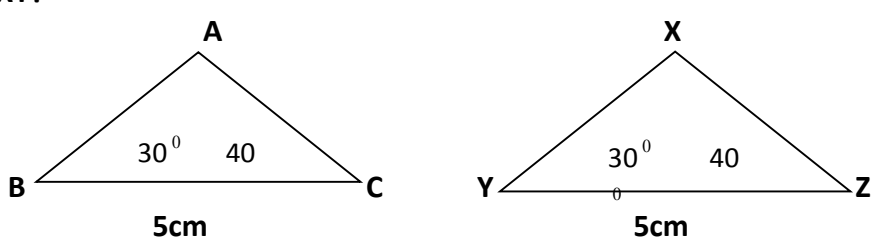
S.NO	FILL IN THE BLANKS ( 1 MARK EACH )
(h)	The numerical coefficient of $x$ in $-3x + 5$ is _____
(i)	20% of 600 km is _____
(j)	An exterior angle of a triangle is $120^\circ$ and one of the interior opposite angle is $65^\circ$ , then the measure of the other interior opposite angle is _____
(k)	Two angles are congruent if they have the same _____
(l)	The area of a parallelogram with base 12 cm and altitude 4.5 cm is _____
(m)	The mode of the set of values 2,3,2,5,2,3,4,3,3 is _____
(n)	The median of the data 2,3, 6, 4,12,10,6,8,7 is _____

Q.NO '2' TO '12' – ('2' MARKS EACH )

S.NO	QUESTIONS
2	Simplify and find the value of $3x - 16 + 2x - 6$ when $x = 2$
3	Subtract $(x^2 + 2xy + y^2)$ from $(2x^2 + 4y^2 - 3xy)$
4	Solve : $2(x + 5) = 14$
5	Solve : $\frac{2x+1}{x-2} = \frac{2}{3}$

S.NO	QUESTIONS
6	A man bought a computer for Rs 30000 and due to defect had to sell it for Rs 25500. Find the profit or loss percent.
7	Write if 3cm, 5cm, 7cm can be the sides of a triangle. (show working)
8	If $\triangle ABC \cong \triangle DEF$ , write parts of triangle DEF that corresponds to AB, CA, $\angle B$ and $\angle C$
9	Draw a line parallel to a given line m at a distance of 5.5 cm.
10	The area of a triangle is $36\text{cm}^2$ . If the height is 6cm, find the base of the triangle.
11	Find the diameter of a circular plot whose circumference is 440 m. (Take $\pi = \frac{22}{7}$ )
12	Find the mean of the following data 25,30,22,27,and 26

**Q.NO '13' TO '20' -( '3' MARKS EACH )**

S.NO	QUESTIONS														
13	The sum of three consecutive even numbers is 54. Find the numbers.														
14	Rs 8000 is borrowed at 9% interest p.a. Find the simple interest and amount to be paid after 4 years.														
15	The two sides of right angled triangle are 12 cm and 9 cm. Find the length of the hypotenuse. Also find the perimeter of the triangle.														
16	<p>Are the triangles are congruent? If so write the matching parts and congruence condition used. Is <math>AB = XY</math>?</p> 														
17	Construct $\triangle PQR$ given that $PQ = 6.2\text{cm}$ , $QR = 4.8\text{ cm}$ and $PR = 5.5\text{cm}$ .														
18	Construct $\triangle ABC$ given that $BC = 6\text{ cm}$ , $\angle B = 60^\circ$ and $\angle C = 40^\circ$ ( use ruler and compass to construct special angles )														
19	From a square sheet of side 40 cm, a circle of radius 14cm is removed. Find the area of the remaining sheet.														
20	<p>Draw a bar graph showing the average rainfall recorded in the month of June to November in a city.</p> <table border="1" data-bbox="203 1795 1518 1879"> <thead> <tr> <th>Months</th> <th>June</th> <th>July</th> <th>August</th> <th>September</th> <th>October</th> <th>November</th> </tr> </thead> <tbody> <tr> <td>Rainfall</td> <td>20cm</td> <td>30cm</td> <td>40cm</td> <td>25cm</td> <td>15cm</td> <td>10cm</td> </tr> </tbody> </table>	Months	June	July	August	September	October	November	Rainfall	20cm	30cm	40cm	25cm	15cm	10cm
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Rainfall	20cm	30cm	40cm	25cm	15cm	10cm									