

S.NO	QUESTIONS
4	A cylindrical tank has a capacity of 308cu.m. If the diameter of its base is 14 m, find its depth?
5	Construct a parallelogram ABCD, where BC= 6 cm ; CD = 4.5 cm and BD = 7.5 cm
6	The sum of three consecutive multiples of 11 is 165. Find these multiples?
7	Divide: $(55x^5y^{12} - 33x^{12}y^5) \div 11x^5y^5$
8	Find the area of the quadrilateral whose one diagonal is 14 cm and the lengths of the perpendiculars on it from the opposite vertices are 3cm and 9 cm?
9	In which quadrant the following points lie: i) (-5, -7) ii) (4, -2) iii) (-3, 5) iv) (9,15)
10	Factorize: $49m^2 + 140mn + 100n^2$
11	The area of a rhombus is 70.2sq.cm and one of its diagonal is 18 cm. Find the other diagonal?
12	Solve: $\frac{3x}{4} + \frac{x}{6} = 22$

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

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13	The numerator of a fraction is 4 less than its denominator. If 2 is added to the numerator then the fraction becomes $\frac{5}{7}$. Find the fraction?												
14	Daniel wants to paint the four walls of a room having dimensions 20 m, 12 m and 6 m. From each can of paint 96sq.m of area is painted. How many cans of paint will he need to paint the room?												
15	Factorize: $25a^2 - 100b^2$												
16	The area of a trapezium is 180 sq.cm and its height is 10cm. If one of the parallel sides is longer than the other by 6 cm, find the two parallel sides?												
17	Construct a rectangle ABCD such that AB = 6 cm and BC = 5.5 cm												
18	Simplify: $(7m - 8n)^2 + (7m + 8n)^2$												
19	The following table shows the favourite sports of 120 senior students in a school. Draw a pie-chart to represent the data. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Sports</th> <th>CRICKET</th> <th>FOOTBALL</th> <th>TENNIS</th> <th>BASKETBALL</th> <th>SWIMMING</th> </tr> </thead> <tbody> <tr> <td>No.of students</td> <td>25</td> <td>40</td> <td>20</td> <td>15</td> <td>20</td> </tr> </tbody> </table>	Sports	CRICKET	FOOTBALL	TENNIS	BASKETBALL	SWIMMING	No.of students	25	40	20	15	20
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20	Construct a histogram for the following data. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Yield (in tons)</th> <th>0 – 2</th> <th>2 – 4</th> <th>4 – 6</th> <th>6 – 8</th> <th>8 – 10</th> </tr> </thead> <tbody> <tr> <td>Number of fields</td> <td>4</td> <td>12</td> <td>15</td> <td>10</td> <td>6</td> </tr> </tbody> </table>	Yield (in tons)	0 – 2	2 – 4	4 – 6	6 – 8	8 – 10	Number of fields	4	12	15	10	6
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