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Q1. The foot of a ladder is 6m away from its wall and its top reaches a window 8m above the ground, Find the length of the ladder.

3 Marks

- **Q2.** Simplify: $3^5 \times 10^5 \times 25$
 - $5^7 \times 6^3$

3 Marks

Q3. 9 added to twice a number gives 13. Find the number.

3 Marks

Q4. In Fig. AB || CD, AF || ED, $\angle AFC=68^\circ$ and $\angle FED=42^\circ$. Find $\angle FED=42^\circ$.

3 Marks

- **Q5.** What should be subtracted from $2x^3 3x^2y + 2xy^2 + 3y^3$ to get $x^3 2x^2y + 3xy^2 + 4y^3$?

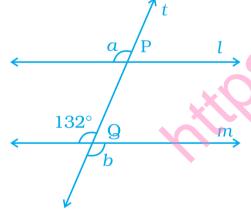
3 Marks

Q6. Find the area enclosed by the following figure:

3 Marks

- cm 8 cm 4 cm 13 cm
- **Q7.** In Fig. I | m and a line t intersects these lines at P and Q, respectively. Find the sum 2a + b.

3 Marks



Q8. Find the amount to be paid at the end of 3 years in case:

3 Marks

Principal = Rs. 1,200 at 12% p.a.

3 Marks

Q9. A multistorey building has 25 floors above the ground level each of height 5m. It also has 3 floors in the basement each of height 5m. A lift in building moves at a rate of 1m/s. If a man starts from 50m above the ground, how long will it take him to reach at 2nd floor of basement?

3 Marks

Q10.Sachin and Sanjana are calculating 23% of 800.



Now, calculate 52% of 700 using both the ways described above. Which way do you find easier?

Q11.Evaluate:

3 Marks

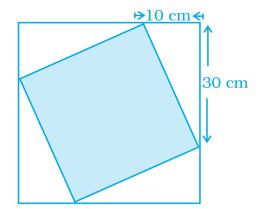
 $\overline{3^3{ imes}5^2{ imes}12^2}$

3 Marks

Q12.Simplify:

 $\frac{13}{11} \times \frac{-14}{5} + \frac{13}{11} \times \frac{-7}{5} + \frac{-13}{11} \times \frac{34}{5}$

Q13.A design is made up of four congruent right triangles as shown in Fig. Find the area of the shaded portion.



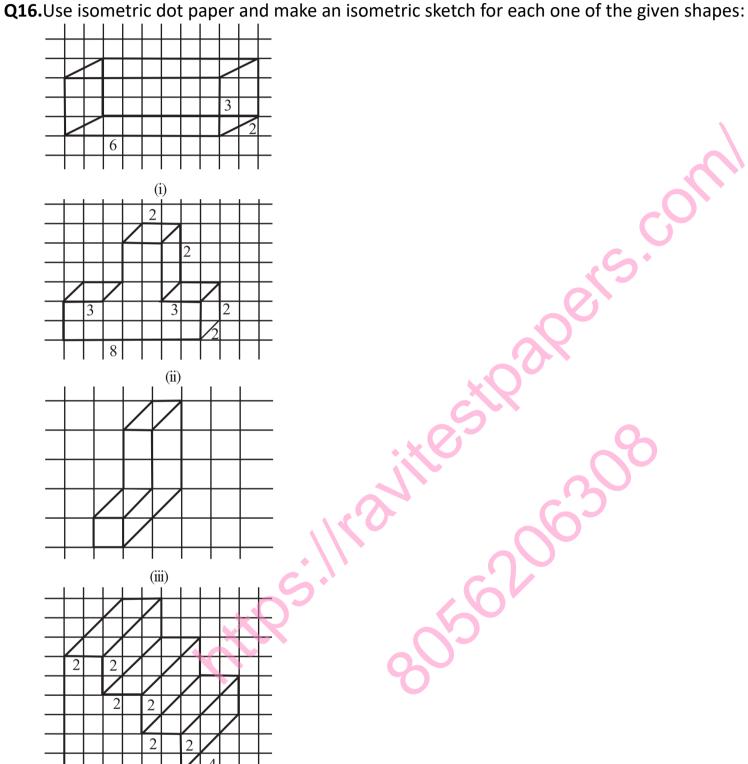
Q14.In a class of 60 students, the number of girls is one third the number of boys. Find the number of girls and boys in the class.

3 Marks

Q15. After 20 years, Manoj will be 5 times as old as he is now. Find his present age.

3 Marks

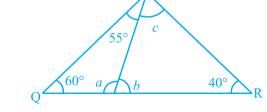
3 Marks



Q17.In Figure. find the values of a, b and c.

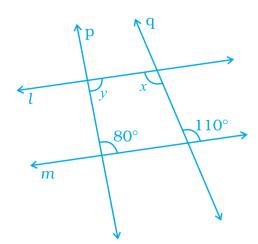
(iv)

3 Marks



Q18.Chalk contains 10% calcium, 3% carbon and 12% oxygen. Find the amount of carbon and calcium (in grams) in $2\frac{1}{2}$ kg 3 Marks of chalk.

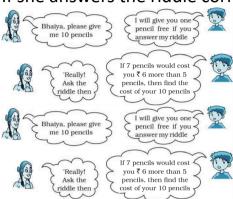
Q19.In Fig. two parallel lines I and m are cut by two transversals p and q. Determine the values of x and y.



Q20.Look at this riddle?

3 Marks

If she answers the riddle correctly how ever will she pay for the pencils?

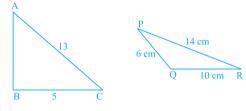


Q21. Two complementary angles differ by 20°. Find the angles.

3 Marks

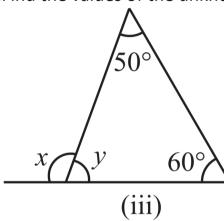
Q22.In the given triangles of Fig. perimeter of $\triangle ABC$ = perimeter of $\triangle PQR$. Find the area of $\triangle ABC$.

3 Marks



Q23.Find the values of the unknowns x and y in the following diagrams:

3 Marks



Q24.Write a pair of integers whose product is -12 and there lies seven integers between them (excluding the given integers).

3 Marks

Q25. By selling a chair for Rs. 1440, a shopkeeper loses 10%. At what price, did he buy it?

3 Marks

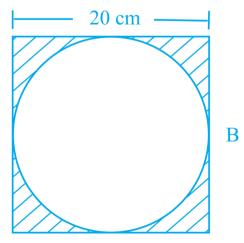
Q26. Amina buys a book for Rs. 275 and sells it at a loss of 15%. How much does she sell it for?

3 Marks

Q27. A square tile of length 20cm has four quarter circles at each corner as shown in Fig.

3 Marks

If the circle touches all the four sides of the square tile, find the area of the shaded portion. In which tile, area of shaded portion will be more? (Take π = 3.14)

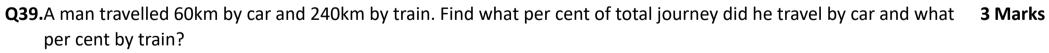


Q28.In a family, the consumption of wheat is 4 times that of rice. The total consumption of the two cereals is 80kg. Find the quantities of rice and wheat consumed in the family.

3 Marks

Q29.Evaluate:

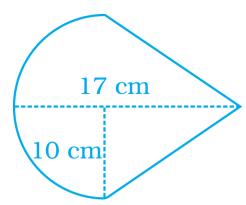
Q30.If a transversal intersects two parallel lines, and the difference of two interior angles on the same side of a transversal is 20°, find the angles.	3 Marks
Q31. How many times of 30 must be added together to get a sum equal to 30 ⁷ ?	3 Marks
Q32. The mean of three numbers is 10. The mean of other four numbers is 12. Find the mean of all the numbers.	3 Marks
Q33. Height of a pole is 8 m. Find the length of rope tied with its top from a point on the ground at a distance of 6 m from its bottom.	3 Marks
Q34. Ambika got 99% marks in Mathematics, 76% marks in Hindi, 61% in English, 84% in Science and 95% in Social Science. If each subject carries 100 marks, then find the percentage of marks obtained by Ambika in the aggregate of all the subjects.	3 Marks
Q35.In Figure. if y is five times x, find the value of z. R G	3 Marks
Q36. Can this be a net for a die? 1 2 3 4 5 6 Explain your answer.	3 Marks
Q37.ABCD is a given rectangle with length as 80cm and breadth as 60cm. P, Q, R, S are the mid points of sides AB, BC, CD, DA respectively. A circular rangoli of radius 10cm is drawn at the centre as shown in Fig. Find the area of shaded portion.	3 Marks
Q38. Points A and B are on the opposite edges of a pond as shown in Figure. To find the distance between the two	3 Marks
points, the surveyor makes a right-angled triangle as shown. Find the distance AB.	
A C	



Q40. Find m so that
$$\left(\frac{2}{9}\right)^3 imes \left(\frac{2}{9}\right)^6 = \left(\frac{2}{9}\right)^{2 ext{m-}1}$$

Q41. The simple interest on a certain sum for 2.5 year at 12% per annum is Rs. 300 less than the simple interest on the	3 Marks
same sum for 4.5 year at 8% per annum. Find the sum.	

Q42.Evaluate:	3 Marks
$7^8 { m a}^{10} { m b}^7 { m c}^{12}$	
$7^6 { m a}^8 { m b}^4 { m c}^{12}$	



Q44.How much cloth will be used in making 6 shirts, if each required $2\frac{1}{4}$ m of cloth, allowing $\frac{1}{8}$ m for waste in cutting and finishing in each shirt?

3 Marks

Q45. An elevator descends into a mine shaft at the rate of 6 m/min. If the descent starts from 10 m above the ground level, how long will it take to reach –350 m.

3 Marks

Q46.Geometry Application:

3 Marks

The number of diagonals of an n-sided figure is $rac{1}{2}(n^2-3n)$ Use the formula to find the number of diagonals for a 6-sided figure (hexagon).



Q47. Area of a triangle PQR right-angled at Q is 60cm² If the smallest side is 8cm long, find the length of the other two sides.

3 Marks



Q48. In an entertainment programme, 250 tickets of Rs. 400 and 500 tickets of Rs 100 were sold. If the entertainment tax 3 Marks is 40% on ticket of Rs. 400 and 20% on ticket of Rs. 100, then find how much entertainment tax was collected from the

Q49.Simplify:

3 Marks

$$\frac{6}{5} \times \frac{3}{7} - \frac{1}{5} \times \frac{3}{7}$$

Q50.Thrice a number decreased by 5 exceeds twice the number by 1. Find the number.

3 Marks

Q51.In a school, the number of girls is 50 more than the number of boys. The total number of students is 1070. Find the 3 Marks number of girls.

Q52.Calculate the mean, median and mode of the following data:

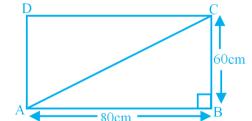
3 Marks

5, 10, 10, 12, 13

Are these three equal?

Q53. Jayanti takes shortest route to her home by walking diagonally across a rectangular park. The park measures 60 metres × 80 metres. How much shorter is the route across the park than the route around its edges?

3 Marks



Q54.The length of a rectangle is two times its width. The perimeter of the rectangle is 180cm. Find the dimensions of the rectangle.

3 Marks

Q55.Solve the following:

3 Marks

People of sundargram planted trees in the village garden. Some of the trees were fruit tress. The number of nonfruit trees. were two more than three times the number of fruit trees. what was the number of tress planted if the number of non-fruit trees planted was 77?

- **Q56.**Arjun bought a rectangular plot with length x and breadth y and then sold a triangular part of it whose base is y and **3 Marks** height is z. Find the area of the remaining part of the plot.
- **Q57.**Set up equations and solve them to find the unknown numbers in the following cases: Ibenhal thinks of a number. If she adds 19 to it and divides the sum by 5, she will get 8.

Q58.The weight of an object on moon is $\frac{1}{6}$ its weight on Earth. If an object weighs $5\frac{3}{5}$ kg on Earth, how much would it weigh on the moon?

3 Marks

Q59. The cost of a flower vase got increased by 12%. If the current cost is Rs. 896, what was its original cost?

Q60.In Figure. find the values of a, b and c.

3 Marks
3 Marks

 $\begin{array}{c}
A \\
30^{\circ} \\
60^{\circ}
\end{array}$

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