



MATHS

BOOKS - VGS PUBLICATION-BRILLIANT

SUMMATIVE ASSESSMENT

Summative Assessment

1. The area of the base of a cone is 616 sq.cm. Then find the radius of the cone.



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2. Write the formulae for the mean in deviation method and also, explain the terms in it.



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3. Is it possible to construct a ΔPQR when $QR = 5$ cm, $PQ + PR = 8$ cm are given ? If not, explain the reason.



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4. In a kiddy bank of Shivani, there are twenty Rs. 10 coins, thirty Rs. 5 coins and fifty Rs. 2 coins. What is the probability of getting Rs. 10 coin when one coin is picked Randomly ?



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5. Give one example for conjecture and explain it.



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6. O' is the center of the circle $AB = BC$ and

$\angle AOB = 30^\circ$ and $\angle COB = 40^\circ$. Find $\angle AOC$.

AOC..



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7. If the mean of 3, 8, 10, 12, x , $2x$ is x , then find the median.



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8. O' is the center of the circle with radius 6 cm, OXYZ is a square. Honey stated that the length of \overline{XZ} is 6 cm. Is it true? Justify your answer.



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9. Naresh has 15 green coloured balls, 20 yellow coloured balls, Find the probability of not getting a yellow ball if one ball is drawn out randomly.





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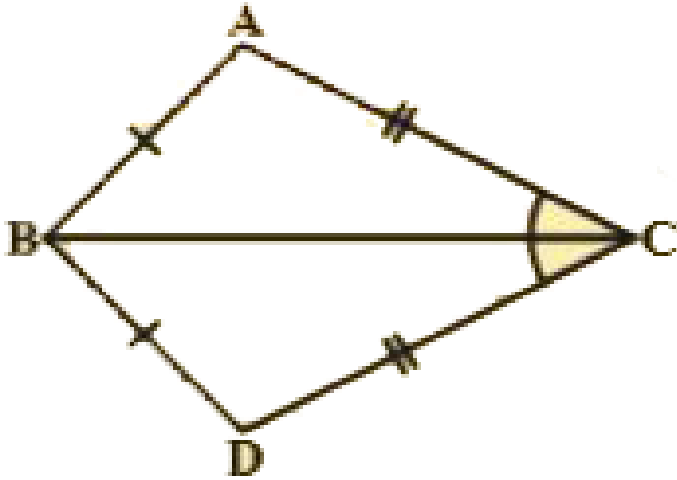
10. Without using a protractor, construct an angle of 90°



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11. In the adjacent figure $\triangle ABC$ and $\triangle DBC$ are two triangles such that $\overline{AB} = \overline{BD}$ and

$\overline{AC} = \overline{CD}$. Show that $\triangle ABC \cong \triangle DBC$.



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12. If the radius and the height of a cylinder are the zeroes of $x^2 - 7x + 12$ ($r > h$), then find the total surface area of the cylinder.



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13. A cylindrical box of radius 7m, height of 5 m is to be made. Determine the area of the sheet required for making the closed box and also find the cost of the sheet required, if it costs Rs. 30 per $1m^2$.



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14. In the adjacent figure ΔABC , \overline{OB} , \overline{OC} are the angle bisectors of $\angle B$, $\angle C$ respectively

Intersect at 'O'. $\angle BOC = 130^\circ$. If $\overline{OB} = \overline{OC}$, then find $\angle A$, $\angle ABC$, $\angle ACB$.



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15. Find the median mark for the following data 25,35,98,76,64,23,51.



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16. A bag contains 10 pencils, 15 pens, 20 markers, 25 sketch pens. What is the prob

ability of getting (i) a pencil (ii) a pen (iii) neither a pen nor a pencil (iv) not a marker if one of them is selected randomly?



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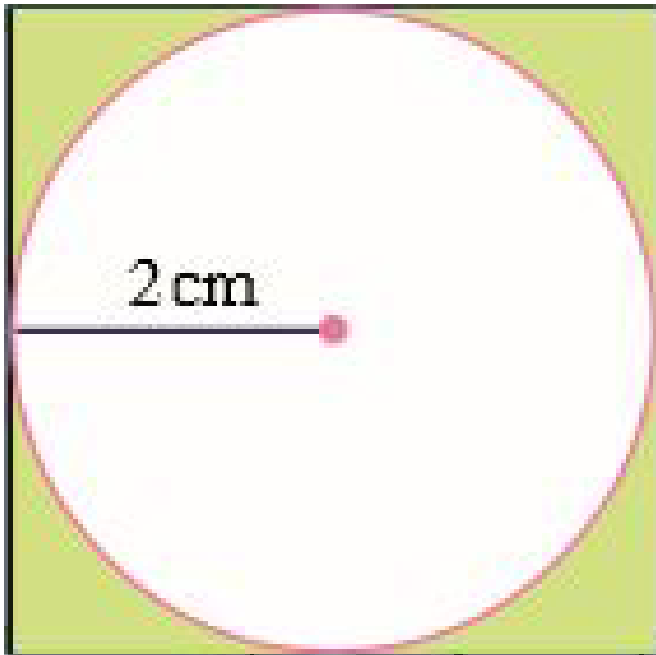
17. If the ratio of the angles of a quadrilateral ABCD is 1:2:1:2 and the length of one side is 6 cm and perpendicular drawn to it is 4 cm. Then find the area.



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18. What is the probability that a randomly thrown dart hits the square board in shaded region

(Take $\pi = \frac{22}{7}$ and express in percentage)



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19. Construct a ΔABC in which $\angle B = 60^\circ$, $\angle C = 40^\circ$ and the perimeter of $\Delta ABC = 10\text{cm}$.



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20. The weights of 50 custard apples are given below. (In grams) 35 , 40 , 45 , 40 , 50 , 55 , 60 , 70 , 75 , 80 , 90 , 94 , 45 , 60 , 65 , 35 , 65 , 35 , 25 , 24 , 34 , 45 , 54 , 63 , 72 , 85 , 99 , 36 , 65 , 49 , 84 , 73 , 54 , 43 , 44 , 23 , 33 , 43 , 53 , 63 , 73 , 83

, 93 , 44 , 55 , 65 , 74 , 89 , 77 , 60 Construct a grouped frequency distribution table with classes 20 – 30 , 30 – 40 , 90 – 100 .



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21. $\pi r^2 h$ is the formulae for _____

A. volume of cylinder

B. volume of cone

C. volume of sphere

D. volume of hemisphere

Answer:



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22. When a dice is rolled, then the probability getting a prime on the top is _____

A. 1

B. $\frac{1}{2}$

C. $\frac{1}{6}$

D. 0

Answer:



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23. The mode of first five multiples of 4 is _____

A. 2

B. 4

C. No mode

D. 10

Answer:



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24. If A, B, C are 3 points on a line and 'B' is the mid of AC then _____

A. $AB=BC$

B. $AC=2AB$

C. Both A & B are correct

D. $AB \neq BC$

Answer:



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25. A.M. $\bar{x} = A + \frac{\sum f_i d_i}{\sum f_i}$ in this formulae A=

- A. Assumed mean
- B. Sum of frequencies
- C. Deviation
- D. Mean

Answer:



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26. If $x + y = 90$, then x is the ___ angle of y .

- A. Complete
- B. Supplementary
- C. Complementary
- D. Reflex

Answer:



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27. Name the triangle formed by the measures

$AB + BC = 10$ cm and $AC = 10$ cm is

- A. Acute triangle
- B. Obtuse triangle
- C. Right triangle
- D. No triangle forms

Answer:



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