

ಕರ್ನಾಟಕ ಶಾಲಾ ಪರೀಕ್ಷೆ ಮತ್ತು ಮೌಲ್ಯನಿರ್ಣಯ ಮಂಡಲ

ಕೆಎಸ್‌ಕೆಎವಿಸಿ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು-560003.

KARNATAKA SCHOOL EXAMINATION AND ASSESSMENT BOARD

KSQAAC, Malleshwaram, Bengaluru-560003.

ಮೌಲ್ಯಾಂಕನ - ಮಾರ್ಚ್ 2023 - ಮಾದರಿ ಪ್ರಶ್ನೋತ್ತರ ಪತ್ರಿಕೆ

Assessment - March 2023 Model Paper

Class : 8

Subject : Mathematics

Marks : 40

Medium : English

Time : 2 Hours

Information to be filled by the Student

Name of the Student : _____

Student SATS No :

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Signature of the Student : _____

Information to be filled by the Room Invigilator

School DISE Code :

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School Name : _____

Cluster : _____ **Block :** _____ **District :** _____

School Type : Govt. ☐ **Aided** ☐ **Un-aided** ☐

(Put “✓” mark for applicable information)

Signature of the Room Invigilator : _____

Information to be filled by the Evaluator at the time of evaluation

Question Number	Obtained marks	Question Number	Obtained marks	Question Number	Obtained marks
1		11		21	
2		12		22	
3		13		23	
4		14		24	
5		15		25	
6		16		26	
7		17		27	
8		18		28	
9		19		-	
10		20		-	
Total marks		Total marks		Total marks	
				Grand Total	

Total marks obtained (in words) : _____

Signature of the Evaluator : _____

Name of the Evaluator : _____

- I** Four alternatives are given for each of the following questions/incomplete statements. Choose the correct alternative and write the complete answer along with the correct option for question numbers 1 to 20. **20 x 1 = 20**

1. Cube root of 125 is

- A. 5 B. 5^3 C. $\sqrt[3]{5}$ D. $\sqrt{5}$

Answer: _____

2. 'a' is non-zero integer, m and n are the natural numbers and $m > n$

then $\frac{a^m}{a^n} =$ _____

- A. a^{m-n} B. a^{m+n} C. $a^{m \times n}$ D. $a^{\frac{m}{n}}$

Answer: _____

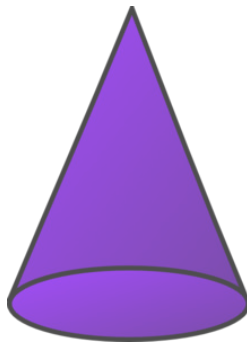
3. The digit in units place of cube of 27 is

- A. 2 B. 7 C. 9 D. 3

Answer: _____

4. The shape of solid in the given figure is

- A. Sphere
B. Cylinder
C. Cone
D. Triangle



Answer: _____

5. The formula to find curved surface area of cylinder is

- A. $2\pi rh$ sq. units B. $2\pi r (r + h)$ sq. units
C. πrh sq. units D. $\pi r^2 h$ sq. units

Answer: _____

6. The least number to be multiplied to 243 to make it a perfect cube is

- A. 5 B. 4 C. 2 D. 3

Answer: _____

7. If the length, breadth and height of a cuboidal room are 12 m, 8 m and 4 m respectively, then area of its four walls is

- A. 16 sq. metre B. 24 sq. metre
C. 160 sq. metre D. 80 sq. metre

Answer: _____

8. The perfect cube 729 lies between the cubes of these numbers,

- A. 7 and 9 B. 8 and 10 C. 6 and 8 D. 10 and 11

Answer: _____

9. The central angle of the sector representing one third region in a pie chart is

- A. 60° B. 180° C. 120° D. 240°

Answer: _____

10. Diameter (d) of cylinder is equal to height (h) of the cylinder, then its total surface area is (sq units)

- A. $4\pi r^2$ B. $6\pi r^2$ C. $8\pi r^2$ D. $12\pi r^2$

Answer: _____

11. 4^3 can be expressed with base 2 as

- A. 2^3 B. 2^4 C. 2^5 D. 2^6

Answer: _____

12. If sum of $4^3 + 4^4 + 4^5$ is divided by 7, then quotient will be

- A. 191 B. 193 C. 192 D. 194

Answer: _____

13. Height and radius of a cylindrical shaped water storage tank are 3m and 7m respectively. The cost of painting its curved surface at the rate of ₹5 per sq. m is

- A. ₹330 B. ₹660 C. ₹2200 D. ₹2310

Answer: _____

14. The general form of $1 \times 1000 + 4 \times 100 + 2 \times 1 + \frac{3}{100} + \frac{2}{1000}$ is

- A. 1402.32 B. 1042.32
C. 1420.032 D. 1402.032

Answer: _____

15. Three cubes each of edges 4 cm are placed one adjacent to the other to form a Cuboid, then the length, breadth and height of resulting Cuboid respectively are

- A. 4 cm, 4 cm, 12 cm B. 12 cm, 4 cm, 4 cm
C. 12 cm, 8 cm, 4 cm D. 8 cm, 4 cm, 12 cm

Answer: ☐ _____

16. The graph that represents the relation between whole of a circle and its parts is

- A. Bar chart B. Double bar chart
C. Histogram D. Pie chart

Answer: ☐ _____

17. Multiplicative inverse of 10^{-5} is

- A. $\frac{1}{5}$ B. $\frac{1}{10^5}$ C. $\frac{1}{5^{10}}$ D. 10^5

Answer: ☐ _____

18. Expanded form of $(2x + 3y)^2$ is

- A. $4x^2 + 9y^2$ B. $4x^2 + 12xy + 9y^2$
C. $4x^2 + 6xy + 9y^2$ D. $4x^2 - 9y^2$

Answer: ☐ _____

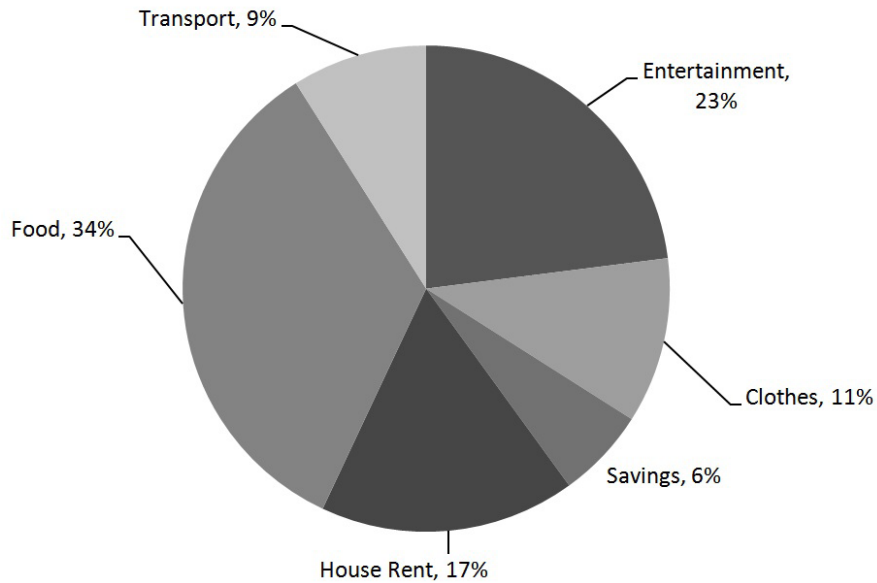
19. The value of $(3^{-1} + 4^2 + 5^{-2})^0$

- A. 0 B. 1 C. 21 D. 3

Answer: ☐ _____

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20. The monthly salary of a person is ₹50000. The amount spent on various activities is shown in the pie chart. The amount saved by the person is



- A. ₹3000 B. ₹300 C. ₹30 D. ₹30000

Answer:

II. Answer the questions from 21 to 28 in the space provided.

21. Write any two properties of rhombus.

2 Marks

OR

Name the point of intersection of vertical axis and horizontal axis in a cartesian plane. Also write the co-ordinates of it.

22. Construct a square of side 6 cm.

2 Marks

OR

Locate and join the points A (1, 1), B (1, 3), C (3, 3) and D (3, 1) on the graph sheet provided.



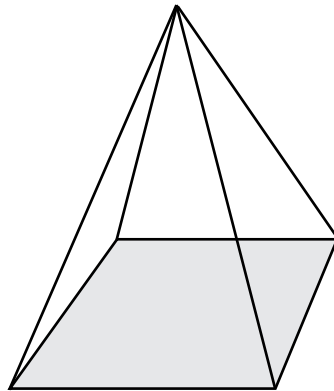
[Turn over

If the weight of 12 sheets of thick paper is 40 grams, how many sheets of same paper would weigh $2\frac{1}{2}$ kilograms?

[illegible]

- 2 Marks

Verify Euler's formula for the solid figure given below.



2 Marks

On Sunday 845 people went to the zoo. On Monday only 169 people went. What is the percent decrease in the people visiting the zoo on Monday?

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

26. Verify associative property for addition of rational numbers

3 Marks

If a person calculates compound interest on ₹10000 for 2 years at 10% per annum, then find the compound interest.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

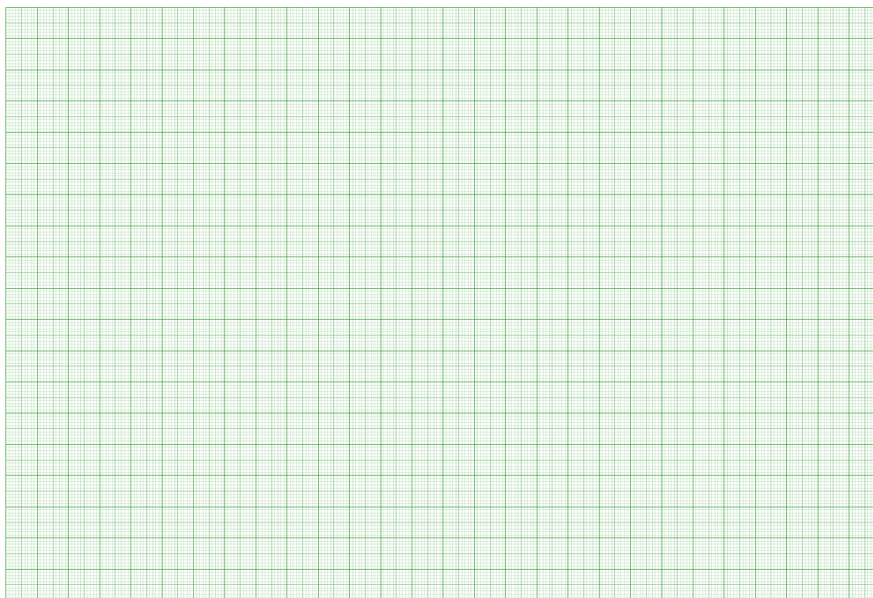
3 Marks

Colours	Number of people
Blue	18
Green	9
Red	6
Yellow	3
Total	36

OR

The marks scored by 40 students in Mathematics is as follows. Draw Histogram for the given data.

CI	0-10	10-20	20-30	30-40	40-50
f	7	9	8	10	6



12

28. Age of A is 5 more than 3 times B's age. If present age of 'A' is 44 years, then find the present age of 'B'. 4 Marks

OR

Divide $44(x^4 - 5x^3 - 24x^2)$ by $11x(x-8)$

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.