CBSE Question Paper 2019 Set-2

Class 8 Mathematics

Time : 2.30 Hrs

M.M. : 50

General Instructions :

i. All the questions are compulsory.
ii. Please write down the serial number of the question before attempting it.
iii. The question paper consists of 22 questions and it is divided into four sections A, B, C and D.
iv. Section A comprises of 5 questions carrying 1 mark each.
v. Section B comprises of 9 questions carrying 2 marks each.
vi. Section C comprises of 5 questions carrying 3 marks each.
vii. Section D comprises of 3 questions carrying 4 marks each.
viii. There is no overall choice. However, an internal choice has been provided in 1 question of 3 marks and 1 question of 4 marks each. You have to attempt only one of the alternatives in all such questions.
ix. Use of calculator is not permitted.

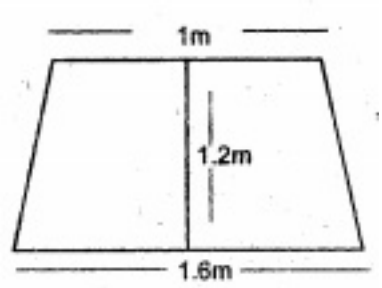
SECTION A

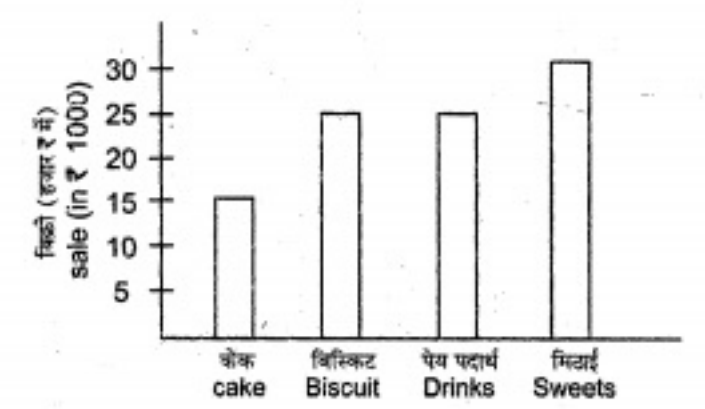
1. What is the unit's digit in the square of 7053?
2. Find the value of (x + 5) at x = -1.
3. Name anyone three-dimensional figure.
4. Find the square of 6.
5. Is 1055 divisible by 10? Give reason.

SECTION B

6. Simplify :

   $(3^5 \div 3^8) \times 3^5$
7. The top surface of a table has a shape of trapezium. Find the area of the surface.



8. Check the divisibility of the number 815961 by 3.
9. 

   Answer the following on the basis of the bar-graph :
   a. Which eatable has the least sale?
   b. What is the total sale of biscuits and drinks?
10. Factorize:

    $25a^2 - 4b^2 + 28bc - 49c^2$
11. A polyhedran has 8 faces and 12 edges. Find the number of vertices by using Euler's formula.
12. Subtract 5xy - 2yz + 10xyz from 3xy + 5yz - 7zx.
13. Express the following numbers in usual form:
    a. 4×10^{-6}
    b. 1.06452×10^{8}
14. Divide: $24(x^2yz+zy^2z+xyz^2) \div 12(xyz)$

SECTION C

15. Find three rational numbers between $-\frac{2}{5}$ and $\frac{1}{2}$.
16. Find the square root of 79.21 by division method.
17. Construct a quadrilateral ABCD in which:

    AB = 4 cm, BC = 3 cm, DA = 2.5 cm, AC = 4.5 cm, BD = 4 cm.

18. Solve by using correct identity:

$(0.4p - 0.5q)^2$

OR

Show that:

$(4pq + 3q)^2 - (4pq - 3q)^2 = 48pq^2$

19. The following table shows the expenditure on various items by a family. Draw a pie-chart for the following:

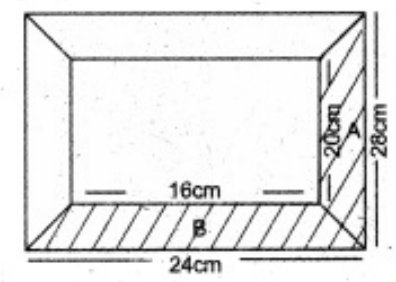
Item	Food	Clothing	Rent	Education
Expenditure	12000	8000	5000	15000

SECTION D

20. Fill in the blanks:
    a. Area of trapezium = ...
    b. Area of rhombus = ...
    c. Area of triangle = ...
    d. Perimeter of rectangle = ...

OR

The given picture frame has outer dimensions 24 cm $\times$ 28 cm and inner dimensions 16 cm $\times$ 20 cm. Find the area of section A and B if the width of each section in same.



21. The following table gives the population of a city in different years. Prepare a graph for the given table:

Year	2002	2003	2004	2005
Population (in thousand)	55	48	52	50

22. A company fills 160 pouches of milk in 8 hours. How much hours will the company take to fill 400 pouches?

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