

CBSE Question Paper 2019 Set-1
Class 8 Mathematics

Time : 2:30Hrs.

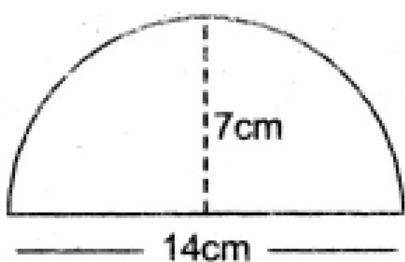
M.M. : 50

General Instructions :

- i. All questions are compulsory.
- ii. This question paper consists of 22 questions divided into four sections : A, B, C and D.
- iii. Section A contains 5 questions of 1 mark each.
 - o Section B contains 9 questions of 2 marks each.
 - o Section C contains 5 questions of 3 marks each.
 - o Section D contains 3 questions of 4 marks each.
- iv. There is no overall choice in this question paper. Although internal choices have been provided in some of the questions.
- v. Please write down the serial number of the question before attempting it.

SECTION A

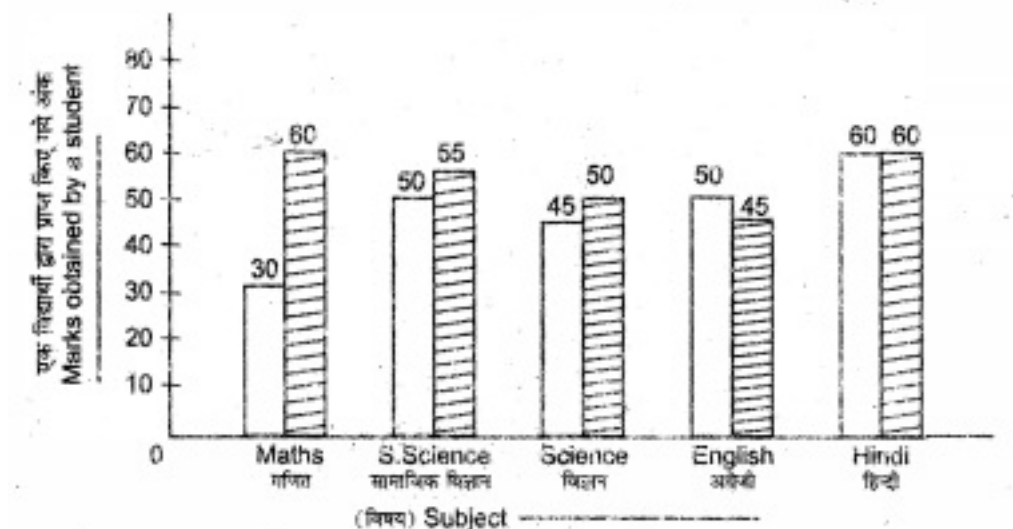
1. Write perimeter of the given figure.



2. Find the one's digit of the cube of 3331.]
3. Identify and write the terms of $1 + x + x^2$.
4. A pole, 14 metres high, casts a shadow of 10 metres. Find the height of a pole that casts a shadow of 15 metres.
5. Find the common factor of :
10pq, 20qr, 30rp

SECTION B

6. Read the bar graph and answer :



- What is the information given by the double bar graph?
- In which subject has the performance improved the most?

7. Find the cube root of 8000.

8. Using the given pattern find the value of $12^3 - 11^3$:

$$2^3 - 1^3 = 1 + 2 \times 1 \times 3$$

$$3^3 - 2^3 = 1 + 3 \times 2 \times 3$$

$$4^3 - 3^3 = 1 + 4 \times 3 \times 3$$

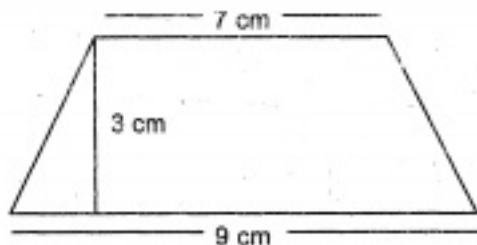
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9. Add:

$$ab - bc, bc - ca, ca - ab$$

10. Find the area of the given trapezium :



11. Complete the table :

Speed in km/hour	3	6	9	45
Time taken (in minutes)	30	15

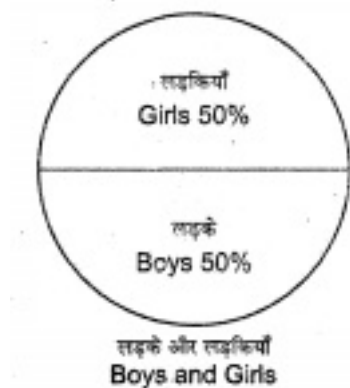
12. Factorise

$$x^2 + 8x + 16$$

13. In a model of factory, the chimney is 9 cm high while the chimney of the actual factory is 12 m high. If height of the actual factory is 28 m, find the height of the model of factory.
14. Obtain the product of :
m, - mn, mnp

SECTION C

15. Write True or False :
- The cube of a single digit number may be a single digit number.
 - The cube of a two digit number may have seven or more digits.
 - The cube of a two digit number may be a three digit number.
16. In the given pie-chart, find the fraction of the circle representing each information:



17. Find the area of a rhombus whose diagonals are of lengths 10 cm and 8.2 cm respectively.

OR

A rhombus shaped floor tile has diagonals 45 cm and 30 cm and its area is 675 cm^2 . Find the total cost of polishing, if the cost per cm^2 is Rs.4.

18. Complete the table for area of a rectangle with given length and breadth :

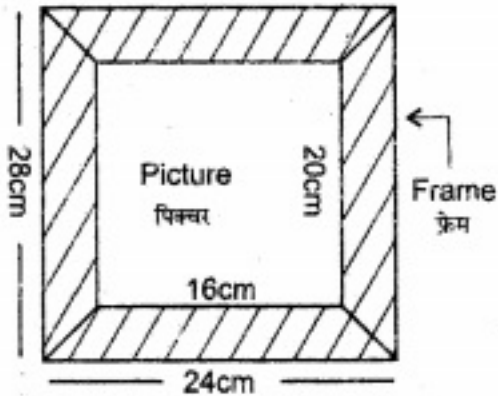
Length	Breadth	Area
3x	5y	$3x \times 5y = 15xy$
(i) 9y	4yz
(ii) 4ab	5bc
(iii) $2l^2m$	$3lm^2$

19. Factorise :

$$6xy - 4y + 6 - 9x$$

SECTION D

20. Find the area of the frame and picture :



21. Draw a pie-chart of the data given below :

% of the favourite flavours of ice-creams for students of a school is given :

Flavour	% of students preferring the flavour
Chocolate	50%
Vanilla	20%
Other flavour	25%

22. Rani has a road map with a scale of 1 cm representing 18 km She drives on a road for 72 km. What would be her distance covered in the map?

OR

Jasminder estimates that 3 persons could rewire her house in 4 days. If she uses 4 persons instead of three, how long should they take to complete the job?