

MATHS  
SAMPLE QUESTION PAPER ( SEMESTER II )

Class: VI

Maximum Marks: 60

Time duration: 2hrs

No of pages:3

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List of Topics covered in this sample paper:

Area and Perimeter

Triangles

Simple equations

Solids

Interest

Idea of a set

Types of sets

Operation of sets

Cardinal Property of a set

Venn-Diagrams

Circles

Introduction of graphs

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General Instructions:

All questions are compulsory.

Section A – Questions 1 to 4 carry 2 marks each.

Section B – Questions 5 to 13 carry 3 marks each.

Section C – Questions 14 to 18 carry 5 marks each.

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1. The area of square is  $256\text{m}^2$ , find length of its each side and also its area.
2. Solve  $4x+2x= 3+8$
3. Find the principal that will amount Rs 1500 in  $5\frac{1}{2}$  years at 15% per annum
4. Define a pie- graph
5. Find the value of x,y z in the given figure

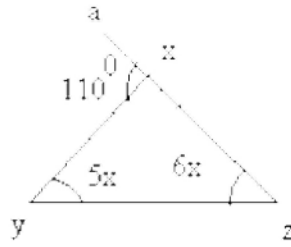


Fig a

6. The difference between two numbers is 23. Taking the larger number as  $x$ , find;
    - a) the expression for smaller number
    - b) the smaller number, if the sum of these two numbers is 91
  7. Find the time in which the simple interest on Rs 16,000 at 20% per annum is 8000 also find the amount at the end of this time.
  8. Write the members of the set whose elements are
    - a) 5,6,7,8,9
    - b) 3,5,15,45,25
  9. Write in Roster form
    - a) the first ten odd natural numbers each divisible by 6
    - b) set of all two digit numbers which are perfect square also.
  10. Define empty set or null set with example
- If  $A = \{3,4,5,6\}$   $B = \{2,4,6,8\}$  find a)  $A-B$  b)  $B-A$
11. Draw a Venn-diagram to show the relationship between the sets A and B  
 $A = \{x : x \text{ belongs to } N \text{ and } x \text{ is less than } 10\}$   
 $B = \{x : x \text{ belongs to } W \text{ and } x \text{ is less than } 16\}$  find a)  $A \cap B$  b)  $A \cup B$
  12. find  $x$  a)  $2(x-3)-3(x-4) = 12$  b)  $(7y+8) \div 7 = 10$
  13. two large number differ by 6 and sum of them is 46, find the larger number
  14. Construct a triangle ABC  $BC = 3\text{cm}$ ,  $AC = 4\text{cm}$  and  $AB = 8\text{cm}$ . Measure angle ACB.
  15. The base of rectangular pool is horizontal. If the depth of the pool is 60cm and its length and breadth are 8.5m and 6.5m respectively; find the volume of water required to
  16. State whether the following are finite or infinite sets
    - a)  $\{2,4,6,8,10,12,16\}$
    - b)  $\{x : x \text{ is a whole number greater than } 30\}$
    - c)  $\{\text{no of electrical trains in your city}\}$
    - d)  $\{\dots, -5, -4, -3, -2, -1\}$
    - e)  $\{x : x \text{ is a natural numbers less than } 1\}$

17. Let A,B C are three set such that  $A = \{2,4,5,6,3,7,8,10,11\}$

$B = \{1,2,3,5,6,8,\}$

$C = \{1,3,5,6,8,9,10\}$  FIND

a)  $A \cap B$       b)  $A \cup C$       c)  $A \cup B$       d)  $A \cap B = A \cup C$

18. Draw a pie- graph to illustrate the following data

Transport to school	Number of children
Walk	8
Bus	9
Train	12
Car	7

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