1. The perimeter of a rectangle is 30cm and its length is 10cm find its breadth and its area
2. solve: a)3x+8 = 14 b) 5(x-2)-2(x+1) = 3
3. When the set are overlapping
4. Define tangent
5. What is triangle ? What are the type of triangle , explain
6. When three consecutive natural numbers are added, the sum is 66, find the numbers.
7. Find the volume and its surface area of the cube whose l= 15cm, b = 8cm and h = 4cm respectively
8. Anup deposited Rs 5600 in a bank for 3 years. If the bank pays interest on this deposit at the
rate of 10% per annual; find how much money will Anup get from the bank at the end of the 3 years

9. Write the set of letters used in the word BANGALORE and ANDRAPRADESH

10. Write the given set in roster form

a) even number between 12 and 22
b) Vowels used in the word „HOW ARE YOU”

11. Set \( U = \{0,1,2,3,4,5,6,7,8,9\} \) \( A = \{2,4,6,3,1\} \) \( B = \{0,1,2,3,4\} \) find a) \( A' \) b) \( B' \) c) \( (A \cap B) \) d) \( (A \cup B) \)

12. Write the cardinal number of the following

a) \( A = \{0,1,2,3,4\} \) b) \( B = \{3,2,5,6,7,8,\} \)

13. Difference between Major segment and Minor segment

14. Find the area and perimeter of given figure, in which all the lengths are given in cm.

![Figure a](image)

15. Define the terms

Empty set, Equal set, Equivalent set, Disjoint Set, Overlapping set.

16. If \( A = \{5,7,8,9\} \) \( B = \{3,4,5,6\} \) and \( C = \{2,4,6,8,10\} \) find:

a) \( n(A) + n(B) \) b) \( n(A \cup B) \) c) \( n(A \cup B) + n(A \cap B) \) d) \( n(A \cap C) \)

17. Construct a circumference for a given triangle ABC
18. Draw a bar graph for the given data for the number of children present on different days for a seminar.

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<th>Days</th>
<th>Mon</th>
<th>Tuesday</th>
<th>Wed</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
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<tr>
<td>No of children</td>
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<td>200</td>
<td>120</td>
<td>150</td>
<td>100</td>
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