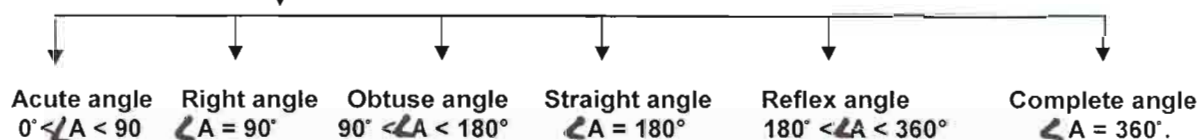


REVISION ASSIGNMENT ANNUAL EXAMINATION 2011-12 MATHEMATICS CLASS VI

SYLLABUS : TOPICS INCLUDED FROM TERM 1 : ALGEBRA , LINEAR EQUATIONS

POINTS TO REMEMBER:

1. Types of Angles –



2. Types of Triangles –

ON THE BASIS OF SIDES

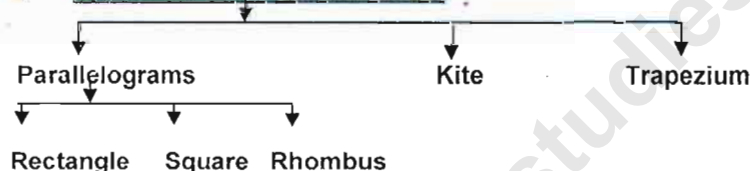
In $\triangle ABC$,

- Equilateral Triangle : $\overline{AB} = \overline{BC} = \overline{CA}$
- Isosceles Triangle : $\overline{AB} = \overline{BC} \neq \overline{AC}$
- Scalene Triangle : $\overline{AB} \neq \overline{BC} \neq \overline{AC}$.

ON THE BASIS OF ANGLES

- Acute Angled Triangle : all angles measure < 90
- Obtuse Angled Triangle : only one angle is obtuse and other two are acute
- Right Angled Triangle : Only one angle is right and other two are acute

3. Classification of Quadrilaterals



4. Three dimensional shapes having length , breadth and height.

figure	Faces	Edges	Vertices	Figure	Faces	Edges	Vertices
Cuboid	6	12	8	Triangular Prism	5	9	6
Cube	6	12	8	Sphere	1	0	0
Cylinder	2	2	0	Cone	2	1	1
Triangular Pyramid	4	6	4	Square Pyramid	5	8	5

5. Rectangle of length l and breadth b :

Perimeter = $2(l + b)$

Area = $l \times b$

Length = $\text{Area} \div \text{Breadth}$; Length = $\frac{\text{Perimeter}}{2} - \text{Breadth}$

Breadth = $\text{Area} \div \text{Length}$; Breadth = $\frac{\text{Perimeter}}{2} - \text{Length}$

6. Square of side s :

Perimeter = $4 \times s$

Area = side \times side

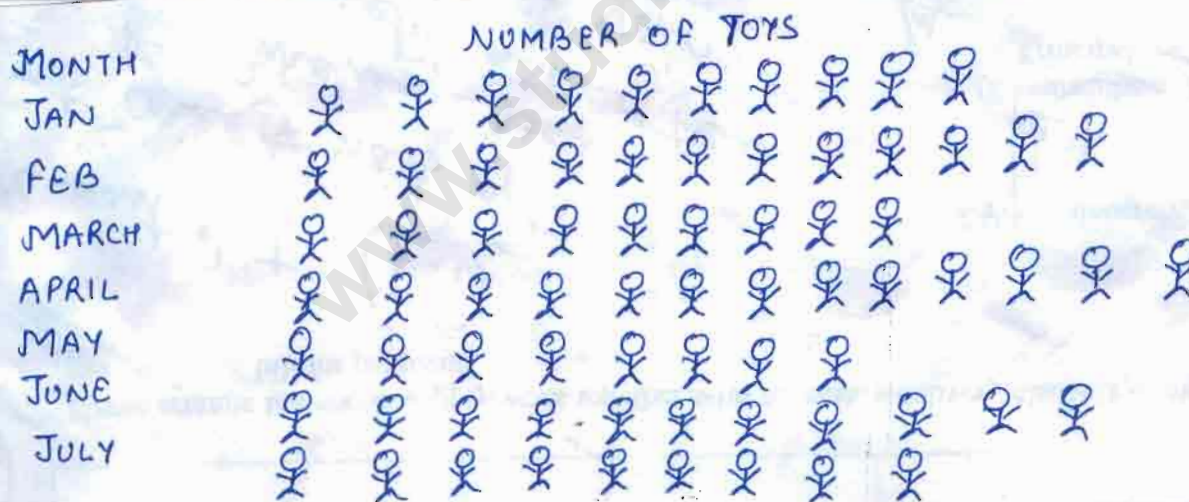
Side = $\text{Perimeter} \div 4$

1. What least value should be given to * so that the number :
 - i) $915*26$ is divisible by 9.
 - ii) $63576*2$ is divisible by 8.
 - iii) $653*47$ is divisible by 11.
2. The H.C.F and L.C.M of two numbers are 13 and 1989 respectively. If one of the numbers is 117, determine the other.
3. What is the smallest number which when divided by 24, 36 and 54 gives a remainder of 5 each time?
4. Find the greatest number of 6 digits exactly divisible by 24, 15 and 36.
5. The length, breadth and height of a room are 8m 25 cm , 6m 75 cm, 4m 50 cm respectively. Determine the longest rod which can measure the three dimensions of the room exactly.
6. Anjali scores 100 marks in Mathematics and x marks in Science. What is her total score in Science and Maths.
7. Rohit covers a total distance of $(7x + 3y)$ Km in his journey. If he covers $(3x - 8y)$ Km by train, how many Kilometers does he cover by plane?
8. Add $-7xy$, $5xy$, $-2xy$, $9xy$. Write the coefficient of "x" in the sum.
9. Solve the following equations:
 - i) $3x + 2 = 5x + 7$
 - ii) $4x + 3 = 11$
 - iii) $5x + 3 = 28$
 - iv) $7 + 3y = -14$
 - v) $y + \frac{3}{2} = 6$
10. A bus covers a distance of 220 Km in 4 hours. Find
 - i) how long will it take to cover a distance of 495 Km ?
 - ii) how far it will travel in 5 hours 30 minutes ?
11. If 22.5 metres of uniform rod weigh 101.25 Kg, What will be the weight of 7 metres of the same rod?
12. 13 iron balls of the same size weigh 8 Kg 710 g . How many of them will weigh 3 Kg 350 gm.
13. Fifteen inlands cost Rs. 22.50. What will be the cost of 36 inlands? How many inlands can we buy for Rs. 67.5?
14. Find the ratio and express in simplest form:
 - i) Rs. 15 to Rs. 20
 - ii) 125 gm to 3 Kg
 - iii) one hour to 36 minutes
 - iv) 6 hours to a day
 - v) a dozen to a score
15. If 72 person working in an office, 28 are men and the remaining are women. Find the ratio of the number of:
 - i) men to that of women
 - ii) men to the total number of persons
 - iii) total persons to the women
16. A shopkeeper earns Rs. 5265 monthly and spends Rs. 2340. Find the ratio between his expenditure and savings.

17. The first, third and the fourth terms of a proportion are 36, 28 and 63 respectively. Find the second term.
19. Find 'x', if x, 6, 55, 11 are in proportion.
20. The ratio of the length of a school ground to its width is 5 : 2 . Find its length, if the width is 40 metres.
21. Express as ratio, ' the number of girls in a school is one-third of the number of boys.'
22. Anita had half of the cake she baked . Express in ratio the cake she baked to the remaining cake.
23. Express each of the following as percent:
- i) $\frac{12}{5}$ ii) $1\frac{3}{5}$ iii) 0.35 iv) $\frac{2}{3}$ v) 3.05
24. Express the following as fractions in the simplest form:
- i) 35% ii) 5.7% iii) $13\frac{1}{3}\%$ iv) 0.75%
25. Express as decimal:
- i) 65% ii) 9% iii) 13.34% iv) 0.05%
26. Find the value of the following:
- i) 25% of Rs. 160 ii) 70 % of 125 kg iii) $12\frac{1}{2}\%$ of Rs. 130.80
iv) 15% of 16.250 litres
27. What percent is each of the following:
- i) Rs. 15 of Rs. 165 ii) 36min of 2 hours iii) 0.5 of 4 iv) 125 metres of 3 Km
28. Amit saves 15% of his salary. If he earns Rs. 12160 per month as salary , find his monthly expenditure.
29. In a fabric, cotton and synthetic fibres are in the ratio 2:3. What is percentage of cotton fibre in the fabric?
30. A boy got 65 out of 90 in Hindi and 33 out of 40 in Mathematics. In which subject his percentage of marks is better.
31. A school contributed Rs. 3000 for the relief of flood victims.If 15% of the amount was contributed by Anshul alone. How much did he alone contributed?
32. Divide Rs. 640 among A, B, C in the ratio 5 : 7 : 8.
33. The perimeter of a rectangle is 25.5m. Its length is 9.5m. Calculate its area in square metres.
34. The perimeter of a square is 24m. Find its area.

36. How many envelopes can be made out of a sheet of a paper 324cm by 172cm, if each envelope requires a piece of paper of size 18cm.
37. How many carpets of size 6m x 4m are required to cover the floor of the hall of size 40m x 24m.
38. Each side of a square measures 62m 5dm, Find its area in sq. metres. By how many square metres does it fall short of a hectare.
39. A string 36m long is bent in the shape of a square. Find the area of the square. Also, if the same string is used to make a rectangle of length 10m. Find the area covered by the rectangle.
40. Area of a rectangle is same as that of a square of side 18m. Find the breadth of the rectangle if its length is 24m.
41. If a symbol of a car represents 5 cars, then 7 symbols will represent how many cars?
42. State two properties of the following:
 i) Rhombus iii) Square v) Rectangle
 ii) Parallelogram iv) Trapezium
43. Construct concentric circles with center O and radius 3cm and 4 cm.
44. Draw a line segment PQ = 6.4 cm. Cut off PC, such that PC = 3cm. Measure CQ.
45. Study the pictograph and answer the questions:

TOYS MANUFACTURED IN A FACTORY
 SCALE : EACH SYMBOL  REPRESENTS 5 TOYS



- i) In which month maximum toys were manufactured?
- ii) In which month minimum toys were manufactured?
- iii) Find the ratio of toys manufactured in February to April?
- iv) If a toy cost Rs. 20. What is total Sales of the factory in month of March?
- v) If 10 toys can be packed in a cartoon. Then how many cartoons are needed to pack the toys manufactured in all the given months?