

INTERNATIONAL INDIAN SCHOOL DAMMAM

CLASS VI

MATHEMATICS

2017-18

ALGEBRA

1) Write expression for:-

1. Sum of x and 3 gives 5.
2. 2 multiplied by m is equal to 8.
3. Difference between 23 and p is 12.
4. Product of 4 and z is the same as 32.
5. 11 times p plus 3 is 45.
6. One half of x is equal to 3.
7. The number of days in y weeks.
8. 25 more than three times of x .
9. 20 exceeds c gives 18.
10. Manu's age is 6 years younger than Ishan's age
11. Ravi's age will be 7 years from now.
12. The price of apple is 12 more than the price of orange.
13. Raj has 15 more marbles than Ravi.
14. Express the perimeters of :
 - (a) Equilateral triangle
 - (b) Square
 - (c) Regular hexagon

2) Solve the following equation:-

- | | |
|--------------------------|-------------------------------------|
| 1. $x + 13 = 42$ | 9. $\frac{12m}{2} = 30$ |
| 2. $m - 5 = 25$ | 10. $\frac{15+z}{11} = 4$ |
| 3. $3x = 18$ | 11. $x + \frac{1}{2} = \frac{3}{4}$ |
| 4. $\frac{n}{6} = 8$ | 12. $3a - 27 = 0$ |
| 5. $5y + 5 = 50$ | 13. $\frac{k}{5} = 4$ |
| 6. $\frac{x}{7} - 2 = 1$ | 14. $7x - 2 = 19$ |
| 7. $6p - 4 = 20$ | 15. $4(8+x) = 14$ |
| 8. $2(t-9) = 22$ | 16. $35 = \frac{7n}{3}$ |

3) State which of the following are equations with variables:-

1. $4x + 3 = 27$
2. $m - 15 > 25$
3. $\frac{k}{3} < 14$
4. $13y = 26$
5. $6(f-9) < 14$
6. $(4m-3)^2 = 26$
7. $7 + \frac{x}{2} > 2$
8. $9z - 4 = 32$
9. $10x + 2 = 18$
10. $7 - a = 3 - 2$

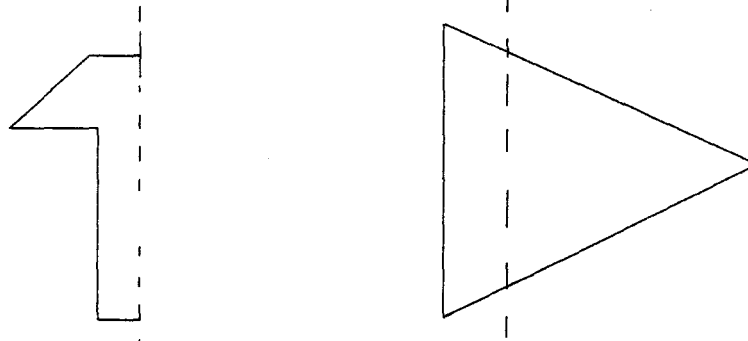
INTERNATIONAL INDIAN SCHOOL, DAMMAM

MATHS WORKSHEET 2017-18

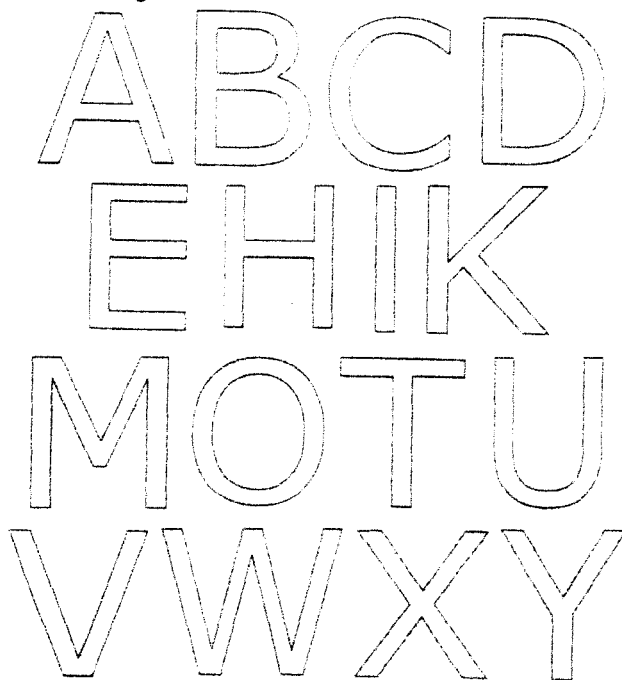
CLASS VI

SYMMETRY

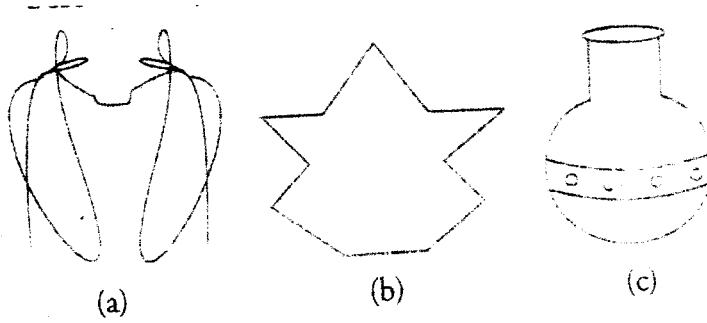
1. List any three symmetrical objects of your surroundings.
2. In the given figure, the dotted line is the line of the symmetry. Complete the figure, making it symmetrical



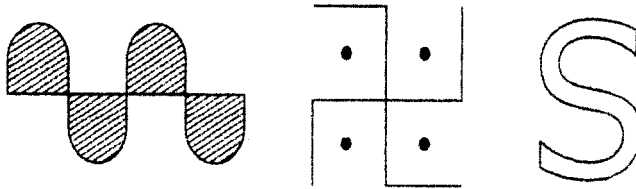
3. Draw the line of symmetry of the following letters of English:



4. Identify the symmetrical objects / shapes given below. Also draw the line of symmetry.



Some figures are symmetrical but are not symmetrical.



4. The English alphabet E has -----line of symmetry.
5. . The English alphabet X has -----line of symmetry.w
6. A circle has ----- line of symmetry.
7. An equilateral triangle has ----- line of symmetry.
8. An isosceles right- angled triangle has -----line of symmetry.
9. A rectangle has -----line of symmetry
10. A square has ----- line of symmetry.
11. A line of symmetry divides the figure in ----- identical parts.
12. Is there any letter of English having 3 lines of symmetry?
13. Write the letter of English that have no line of symmetry.

INTERNATIONAL INDIAN SCHOOL, DAMMAM
MATHS WORKSHEET 2017 – 18
CLASS VI FRACTIONS

1. Draw number lines and locate the points on them.

a) $\frac{2}{6}$, $\frac{5}{6}$, $\frac{7}{6}$, $\frac{8}{6}$

b) $\frac{0}{9}$, $\frac{3}{9}$, $\frac{4}{9}$, $\frac{7}{9}$, $\frac{10}{9}$

2. Express as mixed fractions.

a) $\frac{13}{7}$ b) $\frac{15}{7}$ c) $\frac{112}{5}$ d) $\frac{89}{4}$

3. Express as improper fractions.

a) $8\frac{4}{5}$ b) $13\frac{2}{3}$ c) $12\frac{1}{3}$ d) $5\frac{7}{9}$

4. Write five equivalent fractions of each.

a) $\frac{2}{5}$, $\frac{3}{4}$, $\frac{7}{11}$, $\frac{10}{12}$

5. Reduce the fractions to its simplest form.

a) $\frac{58}{174}$ b) $\frac{126}{210}$ c) $\frac{15}{45}$ d) $\frac{24}{42}$

6. Fill in the boxes.

a)

$$\frac{\boxed{}}{3} = \frac{16}{24}$$

b)

$$\frac{4}{\boxed{}} = \frac{28}{35}$$

c)

$$\frac{5}{6} = \frac{\boxed{}}{30}$$

d)

$$\frac{3}{8} = \frac{27}{\boxed{}}$$

7. Find the equivalent fraction of $\frac{3}{4}$ with

a) Numerator 21 b) Denominator 48

8. Check whether the given fractions are equivalent

a) $\frac{3}{5}$ and $\frac{9}{11}$ b) $\frac{4}{7}$ and $\frac{36}{63}$

9. Arrange the following in ascending and descending order

a) $\frac{3}{26}$, $\frac{3}{8}$, $\frac{3}{22}$, $\frac{3}{15}$, $\frac{3}{16}$ b) $\frac{5}{27}$, $\frac{5}{33}$, $\frac{5}{16}$, $\frac{5}{9}$, $\frac{5}{28}$ c) $\frac{5}{6}$, $\frac{7}{4}$, $\frac{3}{5}$,

10. Compare and put appropriate sign ($<$, $>$ or $=$)

a) $\frac{1}{3}$ $\boxed{}$ $\frac{1}{5}$ b) $\frac{3}{10}$ $\boxed{}$ $\frac{2}{6}$ c) $\frac{28}{29}$ $\boxed{}$ $\frac{19}{20}$ d) $\frac{15}{40}$ $\boxed{}$ $\frac{10}{26}$

11. Answer the following

a) Which is larger, $\frac{1}{31}$ or $\frac{22}{39}$?

b) Which is smaller, $\frac{14}{41}$ or $\frac{38}{40}$

12. Solve

a) $\frac{7}{10} + \frac{5}{10}$ b) $\frac{13}{15} + \frac{3}{5}$ c) $\frac{1}{2} + \frac{1}{3} + \frac{1}{4}$ d) $4\frac{3}{5} + 2\frac{7}{8}$

e) $\frac{9}{10} - \frac{2}{5}$ f) $\frac{8}{11} - \frac{2}{8}$ g) $1\frac{4}{7} - 2\frac{3}{10}$ h) $1 - \frac{2}{3}$

i) Subtract $\frac{5}{6}$ from $\frac{9}{12}$ j) Subtract $\frac{3}{10}$ from $\frac{4}{7}$

13. What fraction is 54 minutes of 2 hours?
14. Ayush had $3\frac{1}{2}$ bars of chocolate. He gave $1\frac{1}{4}$ to his sister. How much chocolate is left with him?
15. Amar bought $3\frac{1}{4}$ m of cloth and Rohit bought $2\frac{2}{5}$ m of cloth. How much cloth did they buy together?
16. Sania has a box of sweets which is $\frac{7}{8}$ full. Sara's sweet box is $\frac{4}{5}$ full. Who has more sweets and by how much?
17. Sam read $15\frac{1}{3}$ pages of a novel on Sunday and $17\frac{7}{12}$ pages on Monday. How many more pages did he read on Monday than on Sunday?

INTERNATIONAL INDIAN SCHOOL, DAMAMM

MATHEMATICS WORKSHEET (2017-18)

CLASS-VI

CHAPTER: DECIMALS

1. Write the following decimals in place value table

a)125.4 b)32.548 c) 94.05

2. Write each as decimals

(a) Six tenths

(b) Two tens three ones and five tenths

(c) $200+40+\frac{7}{10}$

(d) $700+4+\frac{2}{100}$

(e) $\frac{27}{10}$

(f) $\frac{9}{1000}$

(g) $\frac{4}{5}$

(h) $\frac{3}{4}$

(i) $\frac{7}{2}$

(j) $6\frac{1}{5}$

3. Write the given decimals as fractions in lowest form

(a) 0.29 b)2.08

4. Compare the following decimals

(a) 7.35 _____ 9.15 b)2.467 _____ 2.468 c)3.45 _____ 3.56

5. Convert the following using decimals.

- a) $15\text{cm} = \underline{\hspace{2cm}}\text{m}$
- b) $5\text{ paise} = \underline{\hspace{2cm}}\text{Rs}$
- c) $6005\text{paise} = \underline{\hspace{2cm}}\text{Rs}$
- d) $5\text{mm} = \underline{\hspace{2cm}}\text{cm}$
- e) $124\text{mm} = \underline{\hspace{2cm}}\text{cm}$
- f) $4\text{m } 15\text{cm} = \underline{\hspace{2cm}}\text{m}$
- g) $9\text{m } 7\text{cm} = \underline{\hspace{2cm}}\text{m}$
- h) $2350\text{ gm} = \underline{\hspace{2cm}}\text{kg}$

6. Solve the following

- a) $620.5 + 14.62 + 38$
- b) $20.02 + 2.002$
- c) $16.34 - 3.182$
- d) $1.78 - 0.0985$

7. Represent the following on number line

- (a) 0.5 (b) 1.2 (c) 2.4 (d) 1.7

✗ 8. Subtract the sum of 182.38 and 132.91 from 500

9. Jassy went to the market with Rs.1000. she bought a school bag for Rs.275.50 and a lunch box for Rs.95.25. Find the amount left with her.

10. What should be added to 20.75 to get 25.50?

11. Subtract 19.01 from 45.67

12. Samson travelled 16.52km by bus, 31.46km by car and walked 1.45km. Find the total distance covered by him.

INTERNATIONAL INDIAN SCHOOL, DAMMAM
MATHEMATICS WORKSHEET
CLASS VI (2017-2018)
RATIO AND PROPORTION

1. Length and breadth of a rectangular field are 60m and 40m respectively. Find the ratio of breadth to the length of the field.
2. Find the ratio of 120cm to 1.8m.
3. There are 62 teachers in a school. If the number of males is 24 and the remaining are females, then find the ratio of :
 - a) the number of females to the number of males
 - b) the number of males to the number of females
 - c) the number females to the total number of teachers
 - d) the total number of teachers to the number of males
4. Give two equivalent ratios of 9:7
5. Fill in the missing numbers: $\frac{7}{8} = \frac{14}{-} = \frac{-}{56}$
6. Divide Rs. 90 in the ratio 2:3 between Arun and Varun.
7. Ratio of marks scored by Deepthi and Athira is 6:7.
 - a) Who scored more marks?
 - b) Complete the following table which shows the possible marks scored by Deepthi and Athira.

Deepthi's marks	24		36		18
Athira's marks		14		49	

8. Determine if the following are in proportion.
 - a) 6, 18, 21, 63
 - b) 11, 33, 99
9. Are the following statements true?

a) 12 books : 36 books = Rs.180 : Rs. 540

b) 51 Kg : 45 Kg = Rs. 510 : Rs. 360

c) 27 Km : 37 Km = 3 hours : 4 hours

d) 4.5 litres : 9 litres = 18 Kg : 36 Kg

10. Cost of 1 dozen orange is Rs. 180 and cost of 10 apples is Rs. 270. Find the ratio of the cost of 1 orange to the cost of 1 apple.

11. Determine if the following ratios form a proportion. Also, write the middle terms and the Extreme terms where the ratios form a proportion.

a) 40cm : 2m and Rs. 48 : Rs. 240

b) 12 litres : 18 litres and 8 bottles : 12 bottles

c) 5 Kg : 7 Kg and 55 g : 660 g

d) 500 ml : 4.5 L and Rs.22 : Rs. 198

12. Present age of Mary is 30 years and that of Sunny is 5 years. Find the Ratio of

a) Present age of Mary to the present age of Sunny

b) Age of Mary after 5 years to the age of Sunny after 5 years

c) Age of Mary to the age of Sunny, when Sunny was 2 years old

13. Babu earns Rs.4500 in 15 days. How much will he earn in 21 days? In how many days will he earn Rs. 9000?

14. Cost of 7 Kg sugar is Rs.129.50. What will be the cost of 4 Kg of sugar? What quantity of sugar can be bought for Rs. 185?

15. The weight of 48 books is 12 Kg. What is the weight of 68 such books? How many books would weigh 21 Kg?

16. Joy made 45 runs in 5 overs and Raj made 56 runs in 8 overs. Who made more runs per over?

17. The temperature dropped 4°C in the last 8 days. If the rate of temperature drop remains the same, by how many degree will the temperature drop in the next 12 days?

INTERNATIONAL INDIAN SCHOOL , DAMMAM

MATHS WORKSHEET (2017 – 18)

CLASS : 6

CHAPTER : INTEGERS

- 1) Represent the following as integers with appropriate signs:
 - a) A profit of rupees three thousand.
 - b) Withdrawal of rupees sixty thousand.
 - c) Loss of rupees one thousand.
 - d) Deposit of fifteen thousand rupees.
 - e) An aeroplane flying at a height of one thousand nine hundred metres above the ground level.
 - f) A submarine is moving at a depth of two thousand metres below the sea level.
 - g) Gain of eight hundred rupees.
 - h) Temperature falls seven degrees below zero.
- 2) Represent the following integers on the number line.
 - a) 5, b) -3, c) +8, d) -6.
- 3) Write all the integers between the given pairs in the ascending order:
 - a) +3 to -2, b) -5 to +4, c) +6 to -1.
- 4) Add using number line:
 - a) $3+(-4)$, b) $(-6)+4$, c) $(-8)+(-2)$, d) $4+(-1)+(-2)$.
- 5) Add without using number line:
 - a) $29+(-63)$
 - b) $(-72)+35$
 - c) $(-19)+(-17)$
 - d) $-86+(-3)$
 - e) $670+(-400)$
 - f) $(-243)+(-36)+70$
- 6) Using number line, write the integer which is
 - a) 4 more than -3
 - b) 7 less than -4

7) Solve:

a) $28 + (-17) + 59 + (-43)$

b) $(-14) + 45 - 9 - 3$

c) $71 - 18 - (-13)$

8) Fill in the blanks with appropriate signs:

a) $(-16) + (-4) \text{ ----- } (-16) + 4$

b) $12 - (-8) \text{ ----- } -12 + (-8)$

c) $-60 - (-60) \text{ ----- } -60 + (-60)$

9) Fill in the blanks:

a) $14 + \text{-----} = 0$

b) $\text{-----} - 10 = -15$

c) $27 + (-27) = \text{-----}$

d) $-45 + \text{-----} = 32$

10) Subtract

a) 4 from -20

b) -18 from 59

c) -27 from -48

11) Solve:

a) $(-358) + 100 - 234$

b) $(-95) + (-31) + (-11)$

c) $-41 - 23 - 10$

12) Draw a number line and answer the following:

a) If we are at -6 on the number line, in which direction would we move to reach -13?

b) Which number will we reach if we move 5 numbers to the right of -3?

c) which number will we reach if we move 9 numbers to the left of 2?

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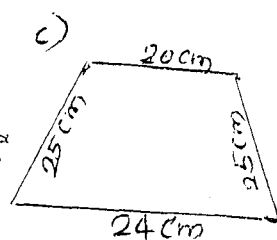
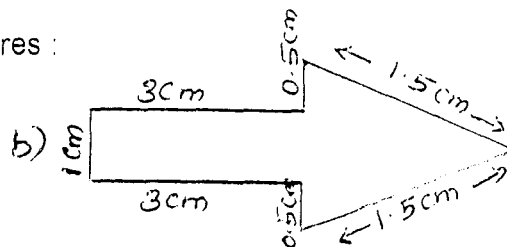
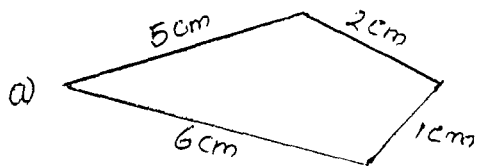
MATHS WORKSHEET 2017 - 18

CLASS VI

MENSURATION

- 1) Rita wants to put a border around a rectangular table cover 4 m long and 3 m wide. Find the length of the border required
- 2) Find the cost of fencing a rectangular field of length 200 m and breadth 150 m, if each side is to be fenced 3 rows of wire at the rate of Rs.12 per m
- 3) Find the perimeter of a triangle with sides measuring 7 cm, 8 cm, 9 cm.
- 4) Find the perimeter of a regular pentagon with each side 7 cm.
- 5) Find the side of the square whose perimeter is 60 m.

- 6) Find the perimeter of the following figures :



- 7) Two sides of a triangle are 13 cm and 17 cm. The perimeter of the triangle is 42 cm. what is the third side. ?
- 8) Find the perimeter of :
 - a) A triangle of sides 2.5 cm, 3 cm, 4 cm.
 - b) An equilateral triangle of side 8 cm.
 - c) An isosceles triangle with equal sides 6 cm each and third side 5 cm.
- 9) Find the area of a square plot of side 9 cm.
- 10) The area of a rectangular piece of cloth is 48 sq. cm and its width is 6 cm. What is the length of the cloth?
- 11) Find the area of the rectangles whose sides are :
 - a) 4 cm , 5 cm
 - b) 10 m and 22 m
 - c) 3 km and 2 km
 - d) 3m and 80 cm.
- 12) Find the area of the square whose sides are :

- a) 9cm b) 12cm c) 6 cm.

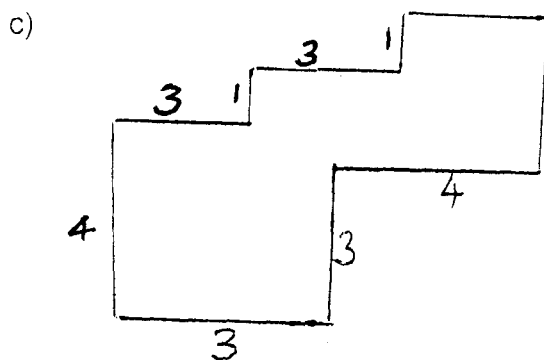
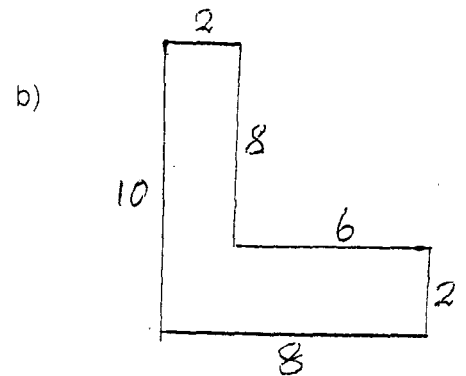
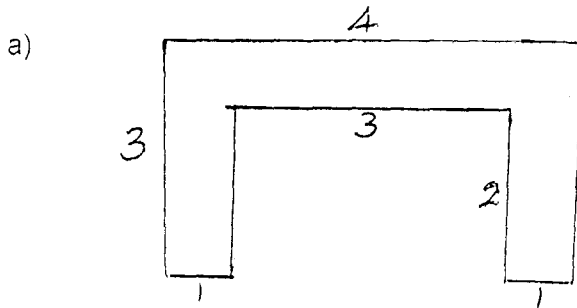
13) What is the cost of tiling a rectangular plot of land 450 m long and 200 m wide at the rate of Rs.10 per hundred sq. m?

14) Five square flower beds each of sides 1 m are dug on a piece of land 6 m long and 5 m wide. What is the area of the remaining part of the land?

15) Rohit wants to cover the floor of a room 4 m wide and 5 m long by square tiles. If each square tile is of side 0.5 m then find the number of tiles required to cover the floor of the room.

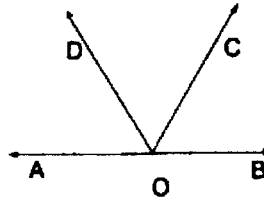
16) A room is 4 m 50 cm long and 3 m wide. How many square metres of carpet is needed to cover the floor of the room?

17) By splitting into rectangles, find their areas :

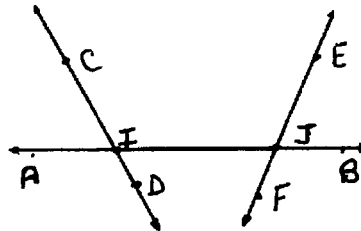


INDIAN INTERNATIONAL SCHOOL DAMMAM
WORKSHEET - BASIC GEOMETRICAL IDEAS
CLASS - VI 2017-2018

1. In the given figure name a) 4 points b) a line c) 4 rays



2. From the given figure name a) two sets of collinear points b) line containing point A c) line passing through C d) one pair of intersecting lines

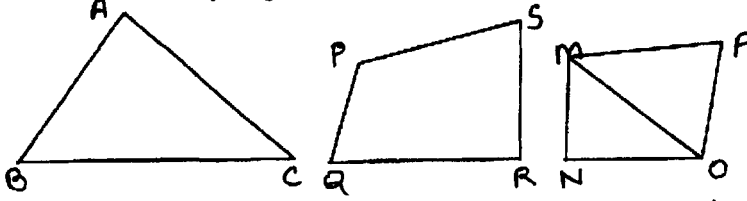


3. Fill in the blanks:

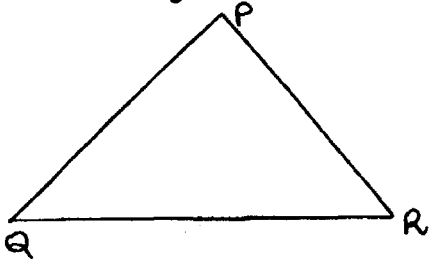
- a) A line has ----- length.
- b) A point where three or more lines meet is called -----.
- c) Three or more lines are collinear if they lie on the same -----.
- d) We can draw ----- line/lines passing through same points.
- e) The meeting point of a pair of adjacent sides of a polygon is called its -----.
- f) The join of two vertices of a polygon which are not adjacent is called its -----.
- g) An angle has ----- vertex and ----- arm/arms .
- h) A polygon having three sides is called a -----.
- i) Quadrilateral is a polygon having ----- sides .
- j) A quadrilateral ha ----- diagonals.
- k) A line segment joining any two points on circumference of a circle is called a -----.
- l) Longest chord is called as-----.
- m) Length of diameter is ----- the radius.
- n) Circles having different radii but the same centres are called ----- circles.

4. Draw a polygon having a) 3 sides b) 4 sides c) 5 sides d) 6 sides

5. How many angles are shown in each of the following diagrams? Name them.

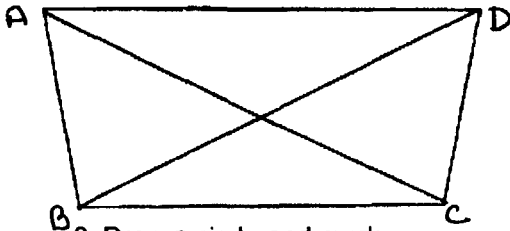


6. In the figure name all the three angles, sides and vertices of the triangle PQR.



7. In quadrilateral ABCD name the following

- Vertices
- Pair of opposite sides
- Angles
- Pair of opposite angles
- Pair of adjacent sides
- Diagonals



8. Draw a circle and mark

- Its centre
- A radius
- A diameter
- A point in its interior
- A point in its exterior
- A point on the circle
- A chord
- An arc
- A sector
- A segment

9. State True or false : In a given circle

- Any number of chords can be drawn
- Only one radius can be drawn
- All the radii are different in length.
- Radius is also a chord
- Diameter is also a chord