Basic Geometrical Ideas

1)	F	111 1	in tr	<u>ie bi</u>	anks	:
						Ξ
			_			

- Circles having different radii but the same centre are called _____
- 2. Radius is of the diameter.
- 3. The diameter of a circle is the chord of the circle.
- 4. The Perimeter of a circle is called the _____
- 5. A quadrilateral has ______ diagonals.
- 6. A triangle has elements.
- 7. The interior of an angle together with the angle (boundary) itself is called the _____
- 8. In △PQR, the side opposite to <P is _____
- 9. Length of a diameter is ______ the radius of a circle.
- 10. All the radii of a circle are

II) Choose the correct answer:

- 1. The centre of a circle
 - i) Lies in its interior ii)lies in its exterior
 - ii) Lies on the circle iv) none of these
- 2. In quadrilateral PQRS, the two diagonal are [
 - i) ii) PR and RS iii) PS and PR PQ and RS
 - ii) PR and QS
- 3. In the figure, the angle can be named as

ii)
$$\leq POQ$$

- 4. A line segment joining any two points on the circle is called a _
 - (i) radius
- (ii) diameter (iii) chord
- (iv) secant
- 5. A closed figure bounded by three or more segments is called a _____

Curve

- (ii) Polygon
- (iii)Circle
- (iv) None of these
- 6. A line intersecting a circle at two different points is called a _____ of a circle.
 - (i) diameter
- (ii) Radius
- (iii) secant
- (iv) centre

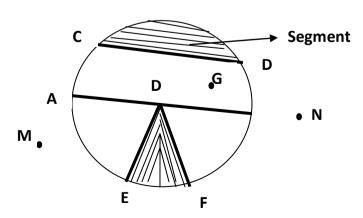
Class VI. BPS Maths Worksheet

Page 28

- 7. A closed figure formed by joining three non-collinear points is called
 - (i) a triangle
- (ii) an angle
- (iii) a curve
- (iv) none of these

- 8. An Angle has
 - (i) One vertex and one arm
 - (ii) One vertex and two arms
 - (iii)Two vertex and two arms
 - (iv) None of these
- 9. A circle is
 - (i) a polygon
- (ii) an open curve
- (ii) a closed curve (iv) none of these
- 10. A Point equidistant from all the Points on a circle is called the ______of the circle.
 - (i) Centre
- (ii) Radius
- (iii) diameter
- (iv)None of these
- III) (i) Δ RPQ, Δ RSP, Δ SPQ, Δ SQR Δ SOP, Δ POQ, Δ ROQ, Δ ROS
 - (ii) \triangle ABC, \triangle ADE, \triangle EFC, \triangle DBF, \triangle DEF
 - (iii) \triangle ABD, \triangle ADC, \triangle ABC
- 2. a) Vertices: P, Q, R, S
 - b)Pair of opposite sides: PQ, SR PS, QR
 - c) Angles: $\langle P \rangle \langle Q, \langle R, \langle S \rangle$
 - d) Pair of opposite angles : < P & < R, < S & < Q
 - e) Pair of adjacent angles: PQ, QR QR, RS
 - f) Diagonals: PR, SQ

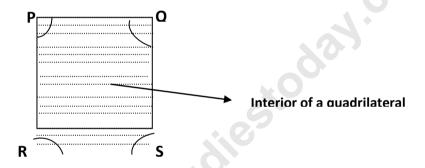
3.



Class VI. BPS Maths Worksheet

- i) Centre –O
- ii) A radius OA, OB, OE, OF
- iii) A diameter AB
- iv) A point in its interior O, G
- v) A point in its exterior M,N
- vi) A chord CD
- vii) An arc **EFO**
- viii) A segment
- ix) A sector
- x) A point on the circle: A, B, D, F

4.



- 5.(i) U, M, r
- (ii)p, q
- (iii) A, B, C, t
- 6. (i) 8 Angles: $\langle ABC, \langle BCA, \langle CAB, \langle ADC, \langle ACD, \langle CAD, \langle BAD, \langle BCD \rangle \rangle \rangle$
- (ii) 3 Angles : $\langle QPR, \langle PRQ, \langle PQR \rangle$
- (iii) 4 Angles : < DAB, < ABC, < BCD, < CDA

7) (i)
$$< 1 = < ADC < 2 = < AOD < 3 = < DOB < 4 = < BOC$$

(ii)
$$< 1 = < DAB$$
 $< 2 = < ABD$ $< 3 = < CBD$ $< 4 = < BCD$

$$< 5 = < CDB$$
 $< 6 = < ADB$

$$(iii) < 1 = < ABC, < 2 = BCD$$

Class VI. BPS Maths Worksheet