## Worksheet - VIII Mathematics, SA - 2, 2014 - 2015

- 1./Construct a quadrilateral ABCD in which AB = 4.5 cm, BC = 6 cm, CD = 5.6 cm, DA = 7.8 cm and diagonal AC = 9 cm.
- 2. Construct a quadrilateral ABCD in which AB=4 cm, BC=6 cm, CD=5 cm, DA=3.5 cm and diagonal AC=7 cm.
- 3. Construct a quadrilateral ABCD in which AB = 8 cm, BC = 9 cm, CD = 5 cm, DA = 6.7 cm and diagonal BD = 7 cm.
- 4. Construct a quadrilateral PQRS in which PQ = 5 cm, QR = 5.5 cm, RS = 6 cm, SP = 8.9 cm and  $\angle P = 60^{\circ}$ .
- 5. Construct a quadrilateral ABCD in which AB = 7 cm, BC = 4.1 cm, AD = 6.3 cm, diagonal BD = 8.7 cm and diagonal AC = 8.9 cm.
- 6. Construct a quadrilateral ABCD in which AB = 6.5 cm, BC = 5.5 cm, DA = 3.8 cm,  $\angle A = 90^{\circ}$  and  $\angle B = 70^{\circ}$ .
- 7. Construct a quadrilateral ABCD with BC = 5.5 cm, CD = 4 cm, DA = 4 cm,  $\angle C = 90^{\circ}$  and  $\angle D = 85^{\circ}$ .
- 8. Construct a quadrilateral PQRS in which PQ = 4.5 cm, QR = 7.5 cm,  $\angle P = 100^\circ$ ,  $\angle Q = 85^\circ$  and  $\angle R = 75^\circ$ .
- % Construct a quadrilateral PQRS in which the sides are PQ = 5 cm, QR = 8.3 cm, RS = 6.4 cm, SP = 9 cm and
- 10. Construct a quadrilateral LMNO in which LM = 5 cm, MN = 6.5 cm,  $\angle L = 75^\circ$ ,  $\angle M = 105^\circ$  and  $\angle N = 120^\circ$ .
- 11. Construct a quadrilateral ABCD in which AB = 4.1 cm, BC = 3.8 cm,  $\angle A = 60^\circ$ ,  $\angle C = 82^\circ$  and  $\angle B = 125^\circ$ .
- 12. Construct a parallelogram, one of whose sides is 5.5 cm and whose diagonals are 5.8 cm and 7 cm.
- 3 Construct a parallelogram, one of whose sides is 6 cm and whose diagonals are 6 cm and 8 cm.
- $\mu_{1}$ . Construct a parallelogram ABCD in which AB = 4.5 cm, BC = 4 cm and diagonal AC = 6.2 cm.
- 15. Construct a parallelogram ABCD in which AB = 6.5 cm, AD = 3 cm and diagonal BD = 4.9 cm.
- 16. Construct a parallelogram OKAY in which OK = 5 cm-, KA = 6 cm grid × = 50°.
- -[/Construct a rectangle ABCD whose sides are 6 cm and 3 cm.
- [G]. Construct a parallelogram PQRS in which QR = 4 cm, PQ = 5.5 cm and  $\angle Q = 78^{\circ}$ .
- 19. /Construct a parallelogram whose diagonals are 4.4 cm and 7.4 cm, and an angle between them is 75°.
- 20. Construct a rectangle ABCD whose one side is 4 cm and diagonal is 5 cm.

2.1 . Construct a parallelogram ABCD in which BC = 3.5 cm,  $\angle C = 80^{\circ}$  and CD = 4 cm.



- 23. Construct a rectangle ABCD whose sides are 4 cm and 2 cm.
- 2.4. Construct a square, each of whose sides measures 4.4 cm.
- 25. Construct a square, each of whose diagonals measures 6.4 cm.
- 26. Construct a rhombus whose diagonals are 5 cm and 6 cm.
- 27 Construct a rhombus with side 6.4 cm and one of whose angles is equal to 70°.



Find the coordinates of the following points from the given graph. Also, name the quadrant in which they lie.

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	I.	M	ultiple Choice Ques	ions.			- 47 <sup></sup>			
		1. The z-coordinate of an ordered pair is called:								
			(i) ordinate		(ii) abscissa	(iii	) intercept	(iv)	origin	
		2.	A linear function is d	enoted	by:					
			(i) $x = y + 2$	i ini in	(ii) $2 = b - a$	(iii	) $a = cx + yb$	(iv)	y = mx + c	
		3.	The coordinate P(3,	0) lies o	:::					
			(i) origin	19 11 (42)	(ii) <i>x</i> -axis	(111	) y-axis	(iv)	none of these	
		4. The coordinate $(-2, 3)$ lies in:								
			(i) 1st quadrant		(ii) 3rd quadrant	(iii	) 2nd quadrant	(iv)	4th quadrant	
		5.	The Cartesian plane	125:			ş			
			(i) 2 quadrants		(ii) 3 quadrants	(iii	) 4 quadrants	(iv)	5 quadrants	
	KT,	Fil	l in the blanks.							
		6.								
		7.					· · · ·			
		8,					adrant.			
		97	The horizontal axis o	faCar	tesian plane is calle	d	•			
		18.	The coordinate $L(0,$	s in/on						
	KKI.	Tic	k (/) for "True" and	(X) fo	or 'False'.					
			The origin of the axes			t.				
		2.	The linear graphs are	represe	ented as lines.				8	
u.		13.	The quadrants of the							
10	)	16.	The vertical axis of th	e Carte	esian plane is denote	".				
	3	US.	$\ln P(x, y), y$ is the abs	scissa.						