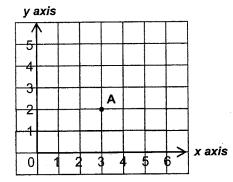
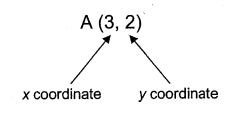
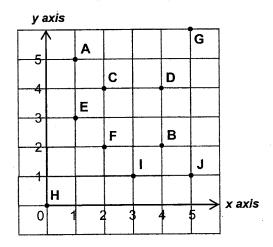
The position of a point on a coordinate grid is identified by a pair of numbers in a bracket:

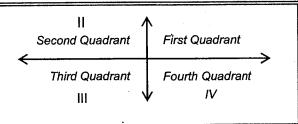




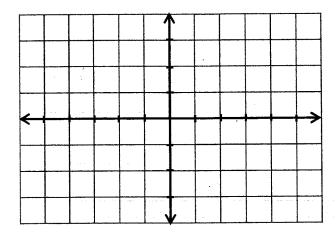
1. Fill in the coordinates for the given points:



A grid that has been extended to include negative integers is called a Cartesian coordinate system:



- 2. a) Identify and label the origin (0) and the x- and y-axes.
 - b) Label the axes with positive and negative integers.
 - c) Number the four quadrants (using I, II, III, IV).



- 1. In Figure 1, point A (2, 3) is in the first quadrant. Its x- and y-coordinates are both positive.
 - a) Plot and label:

b) Find the coordinates of points:

- 2. In Figure 1, point F(-2, 3) is in the second quadrant. Its x-coordinate is negative and its y-coordinate is positive.
 - a) Plot and label:

$$G(-3)$$

$$G(-3,2)$$
 $H(-1,5)$

$$1(-4, 1)$$

b) Find the coordinates of points:

- 3. In Figure 2, point A (-2, -3) is in the third quadrant. Its x- and y- coordinates are both negative.
 - a) Plot and label:

$$B(-3, -2)$$

D
$$(-4, -3)$$
 E $(-5, -2)$

$$= (-3, -2)$$

b) Find the coordinates of points:

- 4. In Figure 2, point F (2, -3) is in the fourth quadrant. Its x-coordinate is positive and its y-coordinate is negative.
 - a) Plot and label:

$$G(3,-2)$$
 $H(1,-5)$

$$J (4, -1)$$
 $J (5, -6)$

b) Find the coordinates of points:



Figure 1:

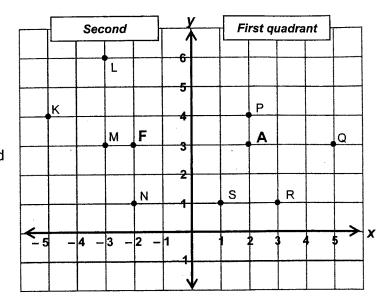
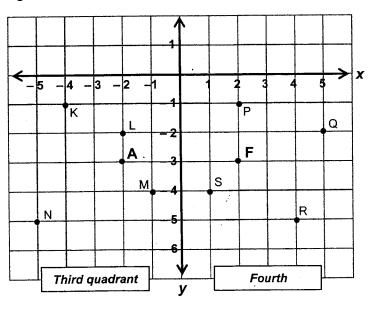


Figure 2:



G8-32: Plotting Points in Coordinate Systems (continued)

5.	In Figure 1, points B $(2, 0)$ and C $(-4, 0)$ are both on the x-axis. The y-coordinate of any			Figure 1												
	point on the x-axis is zero.								K							
	a)	Plot and label:				-			1							
	,	A (3, 0) M	(-3, 0)					4								
		N (5, 0)						3	D							
	b)	Find the coordinates of	f points:					2								
	,	P (,) Q	-			С	Q			R	В	s	,	.		
		R(,) S		_	5 – 4	↓ - 3	-2 -	- 1	1	2	3	4	5	X		
		, ,	, ,						ш							
6.	In Figure 1, points D $(0, 2)$ and E $(0, -3)$ are							-2	Е					_		
		h on the y-axis. The x-c nt on the y-axis is <u>zero</u> .	coordinate of any											_		
	•	Plot and label:						-5						_		
	a)	G (0, 1) H	(0, -4)						/							
	b)	Find the coordinates o	· ·													
	D)	K (,) L		Figu	re 2				<u>y</u>							
		T (,) U				s	·	1								
		1 (,) 0	, ,					4	R							
7.	a)	Locate and label the p	oints on Figure 2:					3					_	_		
		A (3, 4) B	(5, -2)					1 2			Q			_		
		C (-3, -2) D	(-4, 1)					1						_		
		E (3, 0) F		_			U	<u> </u>	0			F	>	> ~		
		G (0, 3) H	l (-5, 0)		5 –	4 – 3	-2	- 1 1	1	2	3	4	5	X		
	b)	On Figure 2, find the o	coordinates of points:		Т			<u> </u>					_ -			
		P(,) Q	2 (,)					- 2	W	<u></u>				_		
		R (,) S														
		T (,) U) (, ,)					-5		٧						
		V (,) W						Ţ	<u> </u>							
	c)	Use letters to complete	e the following blanks:													
	First quadrant points -															
	Third quadrant points -				Fourth quadrant points											
					Poi	ints o	on y-a	xis -					 -			



Origin - _

