



Determine the coordinates and quadrant of each problem.



Answers

- 1) Starting at (0,0) if you were to go right 6 units and up 6 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go down 10 units and right 9 units what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go left 9 units and up 10 units what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go down 10 units and left 3 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go right 6 units and down 8 units what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go right 10 units and up 9 units what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go down 9 units and right 10 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go up 4 units and left 8 units what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go up 6 units and left 4 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go left 1 unit and up 6 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go down 9 units and right 6 units what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go down 3 units and right 7 units what coordinates would you end up at? What quadrant would you be in?

1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____



Determine the coordinates and quadrant of each problem.



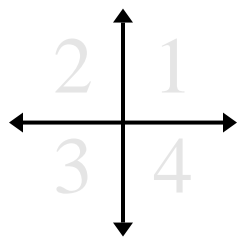
- 1) Starting at (0,0) if you were to go down 10 units and left 2 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go down 10 units and left 8 units what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go down 1 unit and right 5 units what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go right 3 units and up 6 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go up 8 units and right 10 units what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go right 4 units and down 2 units what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go left 10 units and up 8 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go left 10 units and up 2 units what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go right 10 units and down 10 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go down 10 units and left 8 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go right 8 units and up 2 units what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go up 4 units and right 9 units what coordinates would you end up at? What quadrant would you be in?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine the coordinates and quadrant of each problem.



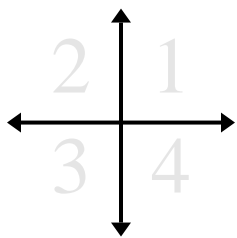
Answers

- 1) Starting at (0,0) if you were to go left 9 units and down 2 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go up 7 units and right 6 units what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go right 1 unit and down 9 units what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go left 3 units and down 4 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go down 9 units and right 4 units what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go down 4 units and right 6 units what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go down 9 units and left 3 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go right 4 units and up 10 units what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go down 6 units and left 6 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go up 8 units and right 9 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go down 9 units and right 2 units what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go up 6 units and left 9 units what coordinates would you end up at? What quadrant would you be in?

1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____



Determine the coordinates and quadrant of each problem.



Answers

- 1) Starting at (0,0) if you were to go right 3 units and up 6 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go left 8 units and down 1 unit what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go right 8 units and up 8 units what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go up 2 units and right 10 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go left 7 units and down 9 units what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go left 6 units and down 1 unit what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go down 1 unit and left 4 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go up 3 units and left 4 units what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go left 7 units and up 4 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go up 8 units and left 6 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go up 7 units and right 3 units what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go left 1 unit and down 2 units what coordinates would you end up at? What quadrant would you be in?

1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____



Determine the coordinates and quadrant of each problem.



Answers

- 1) Starting at (0,0) if you were to go up 10 units and right 10 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go down 5 units and right 4 units what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go right 7 units and down 9 units what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go down 4 units and right 8 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go right 6 units and down 9 units what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go up 9 units and left 1 unit what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go down 7 units and left 1 unit what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go up 7 units and right 2 units what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go right 8 units and up 8 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go right 3 units and up 3 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go down 9 units and left 3 units what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go up 10 units and left 4 units what coordinates would you end up at? What quadrant would you be in?

1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____



Determine the coordinates and quadrant of each problem.



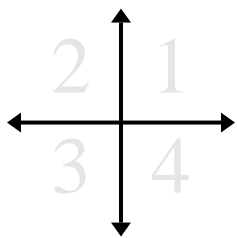
Answers

- 1) Starting at (0,0) if you were to go left 5 units and down 3 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go left 8 units and up 10 units what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go down 7 units and right 8 units what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go right 7 units and down 10 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go up 5 units and left 8 units what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go down 4 units and right 3 units what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go up 10 units and right 4 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go down 5 units and right 1 unit what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go up 6 units and left 6 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go up 4 units and left 2 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go down 3 units and left 2 units what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go left 5 units and down 2 units what coordinates would you end up at? What quadrant would you be in?

1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____



Determine the coordinates and quadrant of each problem.



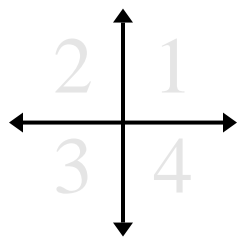
- 1) Starting at (0,0) if you were to go left 5 units and down 3 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go left 8 units and up 10 units what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go down 7 units and right 8 units what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go right 7 units and down 10 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go up 5 units and left 8 units what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go down 4 units and right 3 units what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go up 10 units and right 4 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go down 5 units and right 1 unit what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go up 6 units and left 6 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go up 4 units and left 2 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go down 3 units and left 2 units what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go left 5 units and down 2 units what coordinates would you end up at? What quadrant would you be in?

Answers

- | | | |
|-----|----------------|----------|
| 1. | <u>(-5,-3)</u> | <u>3</u> |
| 2. | <u>(-8,10)</u> | <u>2</u> |
| 3. | <u>(8,-7)</u> | <u>4</u> |
| 4. | <u>(7,-10)</u> | <u>4</u> |
| 5. | <u>(-8,5)</u> | <u>2</u> |
| 6. | <u>(3,-4)</u> | <u>4</u> |
| 7. | <u>(4,10)</u> | <u>1</u> |
| 8. | <u>(1,-5)</u> | <u>4</u> |
| 9. | <u>(-6,6)</u> | <u>2</u> |
| 10. | <u>(-2,4)</u> | <u>2</u> |
| 11. | <u>(-2,-3)</u> | <u>3</u> |
| 12. | <u>(-5,-2)</u> | <u>3</u> |



Determine the coordinates and quadrant of each problem.



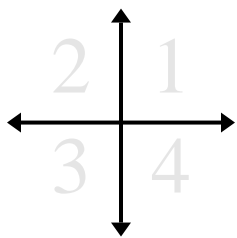
Answers

- 1) Starting at (0,0) if you were to go left 4 units and up 3 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go left 9 units and down 10 units what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go left 1 unit and down 7 units what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go up 5 units and left 2 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go down 7 units and left 7 units what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go up 10 units and right 9 units what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go right 3 units and up 8 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go up 6 units and right 2 units what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go up 6 units and right 9 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go right 3 units and up 9 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go left 6 units and up 4 units what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go down 2 units and right 4 units what coordinates would you end up at? What quadrant would you be in?

1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____



Determine the coordinates and quadrant of each problem.



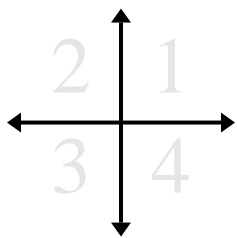
Answers

- 1) Starting at (0,0) if you were to go up 7 units and right 4 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go left 3 units and up 1 unit what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go left 9 units and up 1 unit what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go down 1 unit and right 7 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go right 10 units and down 8 units what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go left 5 units and down 3 units what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go right 7 units and down 5 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go down 4 units and left 4 units what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go right 2 units and up 6 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go down 2 units and left 8 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go left 8 units and down 6 units what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go right 5 units and up 8 units what coordinates would you end up at? What quadrant would you be in?

1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____



Determine the coordinates and quadrant of each problem.



- 1) Starting at (0,0) if you were to go up 7 units and right 4 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go left 3 units and up 1 unit what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go left 9 units and up 1 unit what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go down 1 unit and right 7 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go right 10 units and down 8 units what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go left 5 units and down 3 units what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go right 7 units and down 5 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go down 4 units and left 4 units what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go right 2 units and up 6 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go down 2 units and left 8 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go left 8 units and down 6 units what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go right 5 units and up 8 units what coordinates would you end up at? What quadrant would you be in?

Answers

- | | | |
|-----|----------------|----------|
| 1. | <u>(4,7)</u> | <u>1</u> |
| 2. | <u>(-3,1)</u> | <u>2</u> |
| 3. | <u>(-9,1)</u> | <u>2</u> |
| 4. | <u>(7,-1)</u> | <u>4</u> |
| 5. | <u>(10,-8)</u> | <u>4</u> |
| 6. | <u>(-5,-3)</u> | <u>3</u> |
| 7. | <u>(7,-5)</u> | <u>4</u> |
| 8. | <u>(-4,-4)</u> | <u>3</u> |
| 9. | <u>(2,6)</u> | <u>1</u> |
| 10. | <u>(-8,-2)</u> | <u>3</u> |
| 11. | <u>(-8,-6)</u> | <u>3</u> |
| 12. | <u>(5,8)</u> | <u>1</u> |



Determine the coordinates and quadrant of each problem.



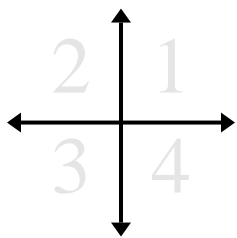
Answers

- 1) Starting at (0,0) if you were to go right 5 units and down 4 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go right 6 units and down 2 units what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go right 6 units and up 1 unit what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go down 9 units and left 4 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go left 3 units and up 1 unit what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go down 8 units and right 5 units what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go right 7 units and down 6 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go left 7 units and down 8 units what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go right 3 units and down 8 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go up 3 units and right 3 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go up 8 units and right 1 unit what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go left 4 units and up 3 units what coordinates would you end up at? What quadrant would you be in?

1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____



Determine the coordinates and quadrant of each problem.



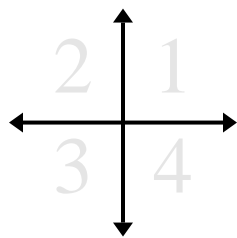
- 1) Starting at (0,0) if you were to go right 5 units and down 4 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go right 6 units and down 2 units what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go right 6 units and up 1 unit what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go down 9 units and left 4 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go left 3 units and up 1 unit what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go down 8 units and right 5 units what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go right 7 units and down 6 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go left 7 units and down 8 units what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go right 3 units and down 8 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go up 3 units and right 3 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go up 8 units and right 1 unit what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go left 4 units and up 3 units what coordinates would you end up at? What quadrant would you be in?

Answers

1. (5,-4) 4
2. (6,-2) 4
3. (6,1) 1
4. (-4,-9) 3
5. (-3,1) 2
6. (5,-8) 4
7. (7,-6) 4
8. (-7,-8) 3
9. (3,-8) 4
10. (3,3) 1
11. (1,8) 1
12. (-4,3) 2



Determine the coordinates and quadrant of each problem.



Answers

- 1) Starting at (0,0) if you were to go down 6 units and left 5 units what coordinates would you end up at? What quadrant would you be in?
- 2) Starting at (0,0) if you were to go up 2 units and right 6 units what coordinates would you end up at? What quadrant would you be in?
- 3) Starting at (0,0) if you were to go right 2 units and down 4 units what coordinates would you end up at? What quadrant would you be in?
- 4) Starting at (0,0) if you were to go down 2 units and left 4 units what coordinates would you end up at? What quadrant would you be in?
- 5) Starting at (0,0) if you were to go left 3 units and down 2 units what coordinates would you end up at? What quadrant would you be in?
- 6) Starting at (0,0) if you were to go right 6 units and down 7 units what coordinates would you end up at? What quadrant would you be in?
- 7) Starting at (0,0) if you were to go right 1 unit and down 3 units what coordinates would you end up at? What quadrant would you be in?
- 8) Starting at (0,0) if you were to go right 10 units and up 9 units what coordinates would you end up at? What quadrant would you be in?
- 9) Starting at (0,0) if you were to go up 10 units and left 2 units what coordinates would you end up at? What quadrant would you be in?
- 10) Starting at (0,0) if you were to go down 1 unit and left 10 units what coordinates would you end up at? What quadrant would you be in?
- 11) Starting at (0,0) if you were to go left 3 units and down 8 units what coordinates would you end up at? What quadrant would you be in?
- 12) Starting at (0,0) if you were to go right 8 units and up 5 units what coordinates would you end up at? What quadrant would you be in?

1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____

