Patterns on the Coordinate Plane
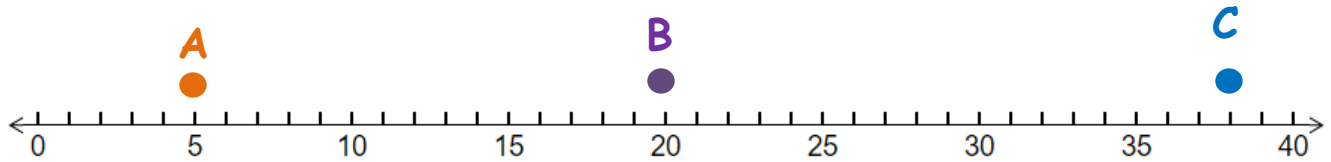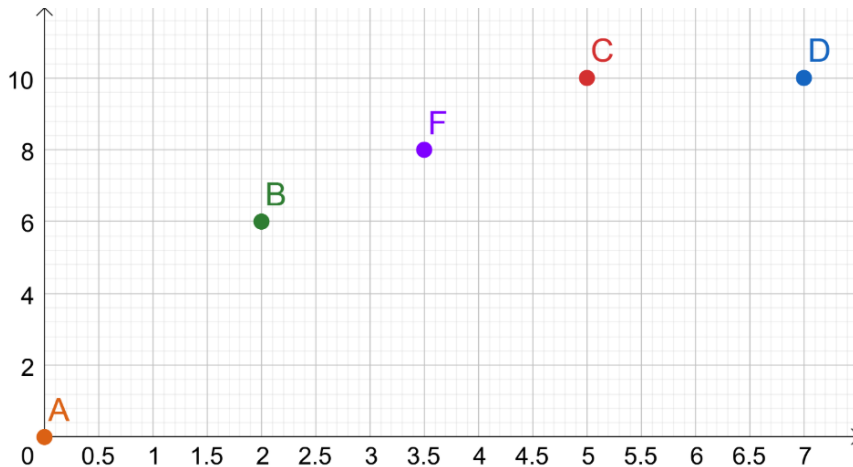
Assignment   **Math 5**

Part A: Use the graphs shown below to answer the corresponding questions.

1. What is the value of A?

2. What coordinate is 20 units away from the origin?

3. If point E is 15 units from the origin, will it be closer to A or B?
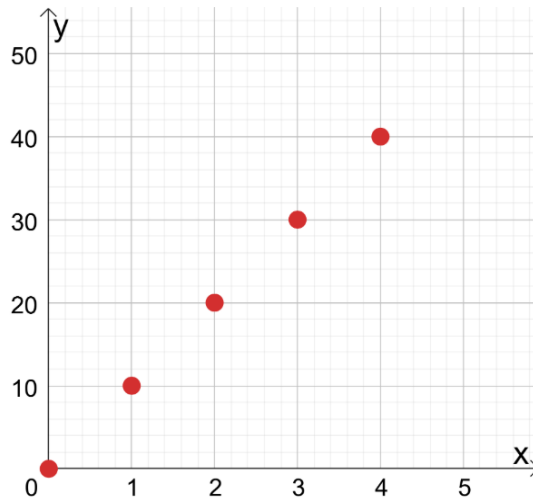

4. What are the coordinates of:

   a. A =   b. B =   c. C =   d. D =

5. If we multiply the the coordinates of F by 2, what would be the value of the new ordered pair?

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Assignment   **Math 5**

Part B: Observe the pattern on each coordinate plane and answer the questions that follow.

1. Find the coordinates of the ordered pairs shown and complete this

   table below.

x	y
0	
1	
2	
3	
4	

2. What is number rule for x and y?
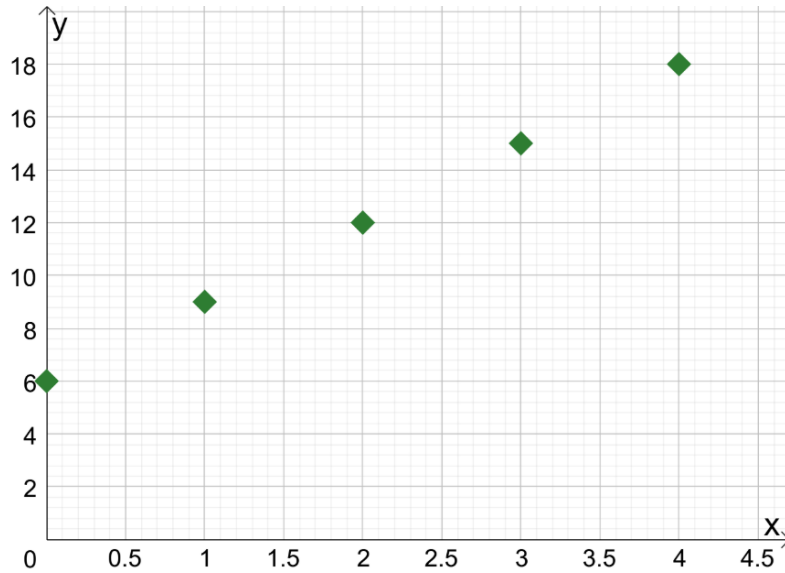
3. If x = 5, what would the value of y be?

4. If y = 1000, what would the value of x be?

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1. Find the value of the ordered pairs shown below.

2. Construct a table for these values and find the number pattern for the ordered pairs.

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3. If $x = 10$, what would the value of y be?

4. Think of a situation in real life that can be represented by these

   values.

Part C: Use your knowledge in patterns and coordinate planes to answer the problems below.

Cindy plans to purchase a new laptop by the end of the year so she started saving $12 on the first week and plans to increase that as the week goes by as shown below.

Week	Amount Saved
Week 1	$12
Week 2	$15
Week 3	$18
Week 4	$21
Week 5	$24

1. Let x be the week number and y be the amount saved that week. Write the table as a set of five ordered pairs.

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2. Construct a coordinate plane showing Cindy's progress for the past four weeks.

3. How much will she save in Week 6?