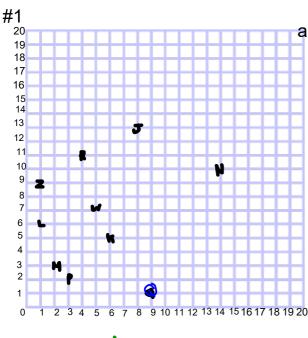


Grade 6 Math

Date: 04,30

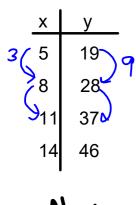




^{a)} Tell what point is located at each ordered pair.

- a) (6, 5) b) (3, 2) Υ
- c) (1,9)Z d) (9,1) 🔇
- b) What is the ordered pair for W? $\sqrt{(5,7)}$
 - c) What is the ordered pair for N? N (14, 10)

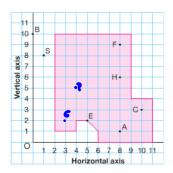
2)Write the expression for the following chart



Not this hard of one on test

nework Solutions

4. Mr. Kelp's class went to the Vancouver Aquarium. Angel drew this map of the aquarium site.





Write the ordered pair for each place.

b) Beluga Whales: B

c) Carmen the Reptile: C

d) Entrance: E (5,2) e) Frogs: F (5,1)

f) Sea Otters: S

g) Sharks: H

5. Use the map in question 4.

a) To get to the Pacific Canada Pavilion at point P You move 1 square left and 3 squares up from the entrance, E. What are the coordinates of P?

You move 5 squares left and 4 squares down from the sharks, H.

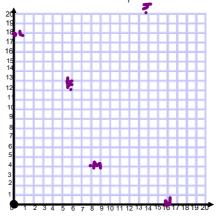
What are the coordinates of G2 b) To get to the Clam Shell Gift Shop at point G:

6. Draw and label a coordinate grid. Plot each point on the grid. How did you decide which scale to use on the axes?

a) A(10,40) b) B(10,0) c) C(20, 20) d) D(0, 30) e) E(50,60) У 100 90 80 70 60 50 40 30 20 10 20 30 40 50 60 70 80 90 100



Plot each point on the grid. How did you decide which scale to use on the axes? d) M(8,4) e) N(16,0) a) J(14, 20) b) K(6, 12) c) L(0, 18)



35 30

20

15

0

10 C(10 0)

H(10, 0)

Vertical axis 25 E(30.

D(15, 20)

F(0, 25)

10 15 20 25 30 35 40

Horizontal axis

8. A student plotted 6 points on a coordinate grid, then labelled each point with its coordinates. The student has made some mistakes.

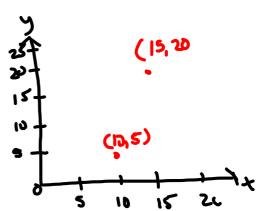
For each point that has been labelled incorrectly:

- a) Explain the mistake.
- b) Write the coordinates that correctly describe the location of the point.

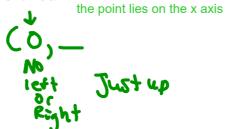
The student mixed up the coordinates for x and y



9. Draw and label a coordinate grid. Use a scale of 1 square represents 5 units. Plot 5 points on the grid. Use an ordered pair to describe the location of each point.



- 10. a) The first number in the ordered pair for Point A is 0. the point lies on the y axis What does this tell you about Point A?
 - b) The second number in the ordered pair for Point B is 0. What does this tell you about Point B?

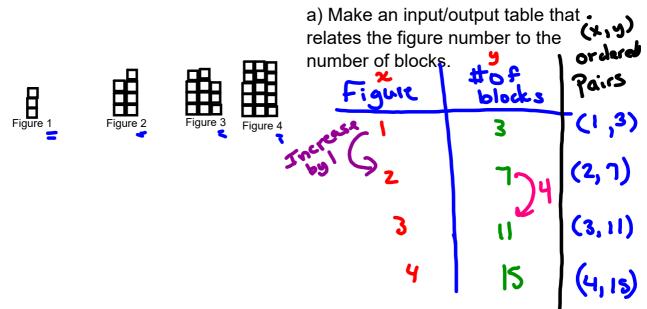




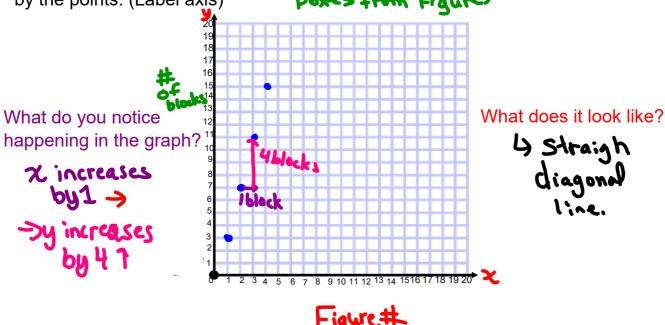
PR2: Represent & describe patterns using tables and graphs

Lesson 6: Drawing the Graph of a pattern

Recall making tables for patterns



c) Plot each ordered pair on a coordinate grid. Describe the graph formed by the points. (Label axis)

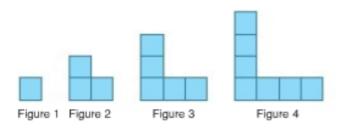




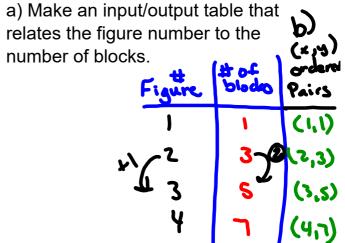
YOU TRY

PR2: Represent & describe patterns using tables and graphs

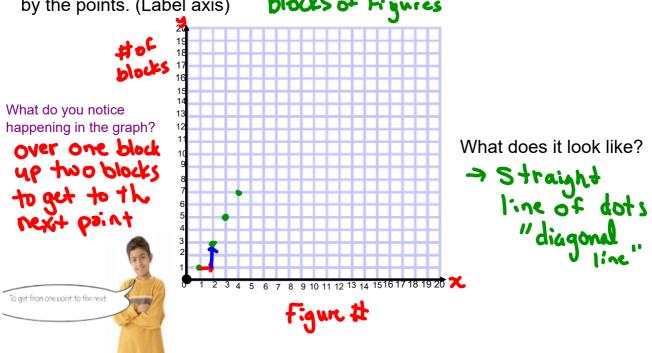
Lesson 6: Drawing the Graph of a pattern



b) Extend the table to represent each figure number and #of blocks as an ordered pair.

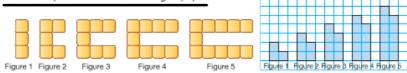


c) Plot each ordered pair on a coordinate grid. Describe the graph formed by the points. (Label axis)



Connect

- ➤ Here are some different ways to represent a pattern.
 - · Model the pattern with tiles or on grid paper.



· Make a table. Include a column for ordered pairs.

Figure Number	Number of Tiles	Ordered Pair
1	3	(1, 3)
2	5	(2, 5)
3	7	(3, 7)
4	9	(4, 9)
5	11	(5, 11)
6	13	(6, 13)
7	15	(7, 15)

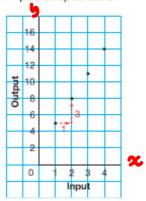
The figure number is the first coordinate. The number of tiles in a figure is the second coordinate.

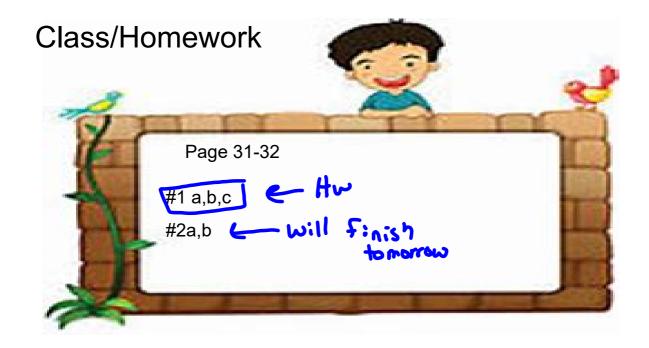
We have extended the table to find the number of tiles in the 7th figure.

➤ We can graph the relationship shown in an Input/Output table.

	Input	Output
\	1	5 7 3
•	2	8
	3	11
	4	14

As the input increases by 1, the output increases by 3.





1. Record each pattern in a table. Then draw a graph to represent the pattern. Explain how the graph represents the pattern. a) b)

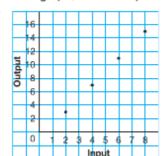
Use grid paper. Graph each table. Describe the relationship shown on the graph.

-1		
a)	Input	Output
	1	3
	2	6
	3	9
	А	12

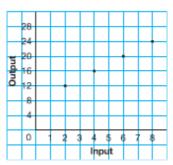
Input	Output
1	5
2	6
3	7
4	8

3. For each graph, make an Input/Output table.

а



b





- 4. Use grid paper.
 - a) Graph the data in the table.
 - b) Describe the relationship shown on the graph.
 - c) Write an expression to represent the pattern.
 - d) Find the number of shapes in the 8th figure. What strategy did you use? Could you use the same strategy to find the number of shapes in the 18th figure? Explain.

Figure Number	Number of Shapes
1	1
2	6
3	11
4	16
5	21

- 5. Use grid paper.
 - a) Make a table.
 Record the figure number and the number of counters in a figure.
 - b) How does the graph represent the pattern?
 - Find the number of counters in the 7th figure.
 Describe the strategy you used.
 - d) How many counters are in the 23rd figure? Describe the strategy you used to find out.

