Grade 6 Math

Date: Oct. 26

input	output
1	16
2	25
3	34
4	43
5	52
6	61

1 9

Check 9×n

n=1 out=16

9×n

9×1

9

Not 16 so add 7 to get 16

* What is the input rule?:

Start at 1, then add 1 each time

* What is the output rule?:

Start 16, then add 9 each time

* Write an expression that relates the input to the output using a variable.

9×n +7

9×n + 7

What is the pattern rule that relates the input to the output?

→ multiply the input by 9, then add 7 to get output.

What is the output value if the input is 15? (n=15)

9 × n + 7

9 × 15 + 7

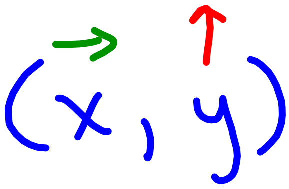
135 + 7

142

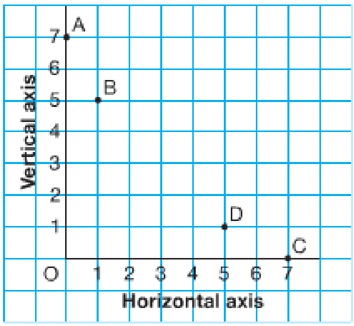
n= 15 out = 142

Homework solutions Page 26 #1,2,3

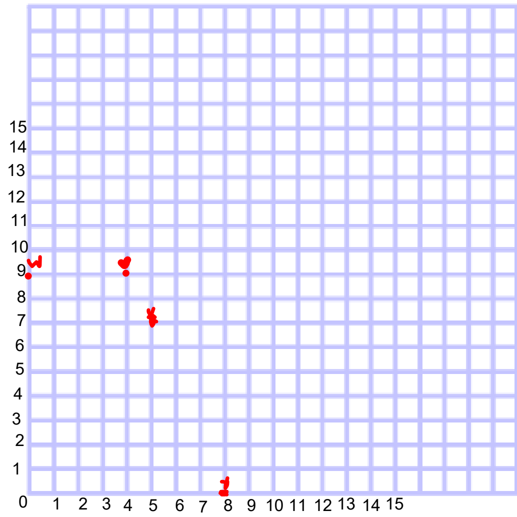
Practice



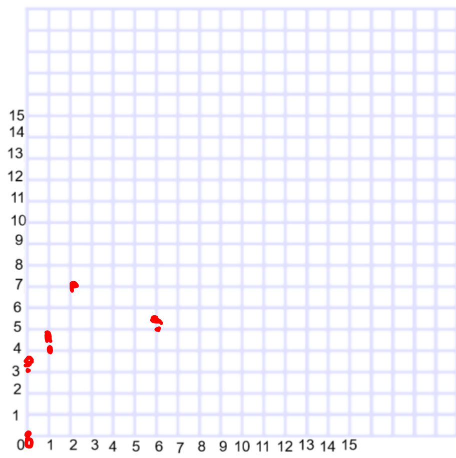
1. Match each ordered pair with a letter on the coordinate grid.
   a) (1, 5) B
   b) (5, 1) D
   c) (0, 7) A
   d) (7, 0) C

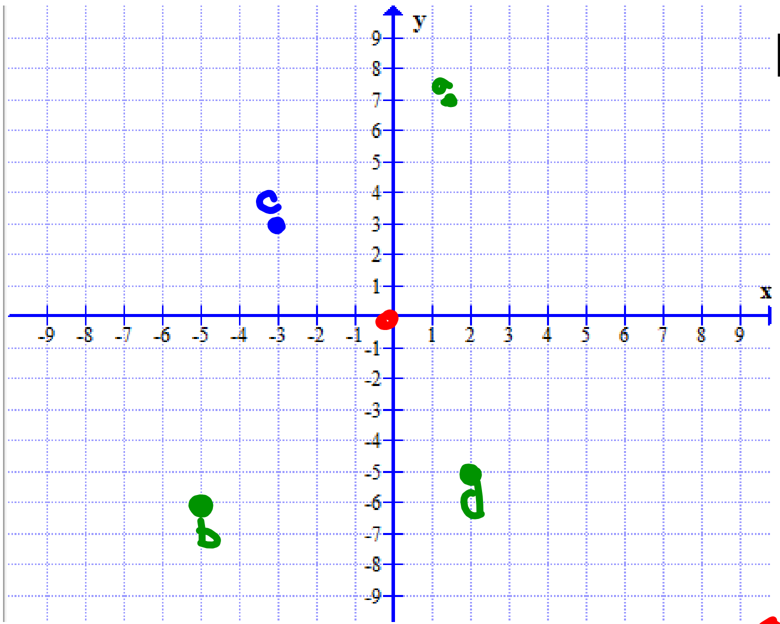


2. Draw and label a coordinate grid.
   Plot each ordered pair.
   Explain how you moved to do this.
   a) V(5, 9) b) W(0, 9) c) X(5, 7) d) Y(8, 0)



3. Draw and label a coordinate grid.
   Plot each point on the grid.
   a) P(2, 7) b) Q(6, 5) c) R(1, 4) d) S(0, 3) e) O(0, 0)





Plot

(x, y)

a) (1.5, 7)

b) (-5, -6)

c) (-3, 3)

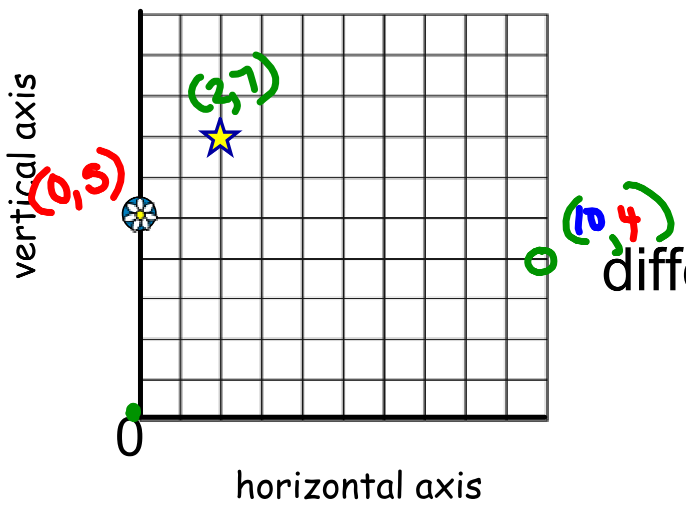
d) (2, -5)

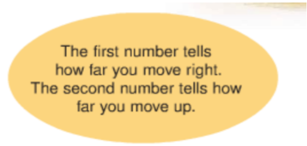
Different from yesterday

Halloween Plot

(x, y)

Let's try





(x , y)

different from yesterday

From O, to reach point B, we must move _____units right and ___ units up.

We write these numbers in brackets (,)

These are called coordinates or ordered pairs.

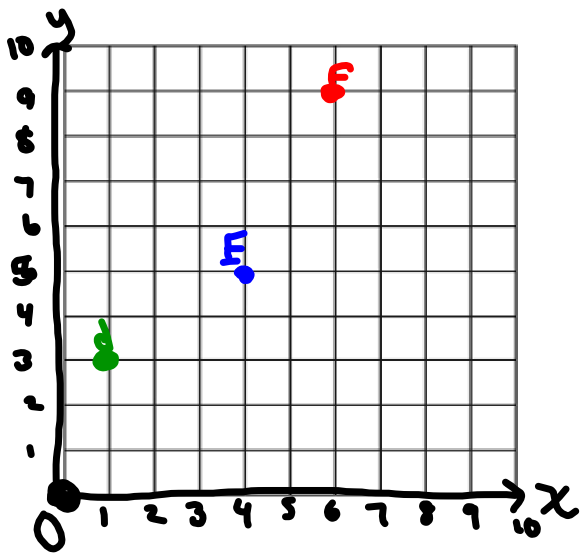
We say: B has coordinates (,)

We write: B(,)

Now write the ordered pairs for both the points C and D

You try plotting these three points

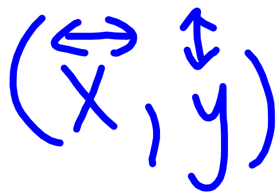
*Label your axis first



D(1, 3)

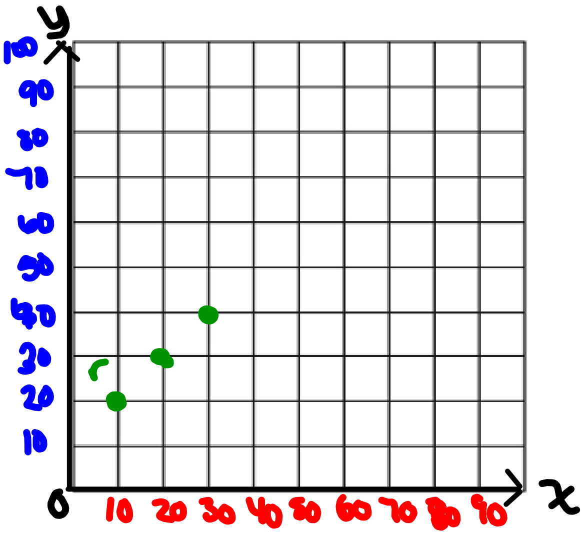
E(4, 5)

F(6, 9)



You try plotting these three points

*Label your axis first



Watch scales

R(10, 20)

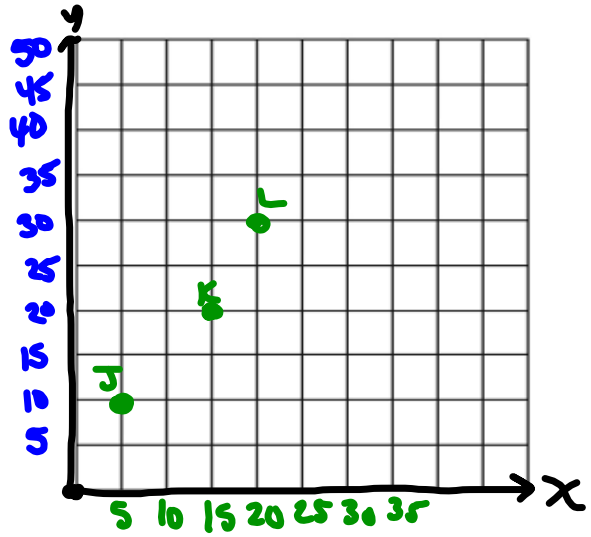
S(20, 30)

T(30, 40)

use multiple of 10's

You try plotting these three points

*Label your axis first

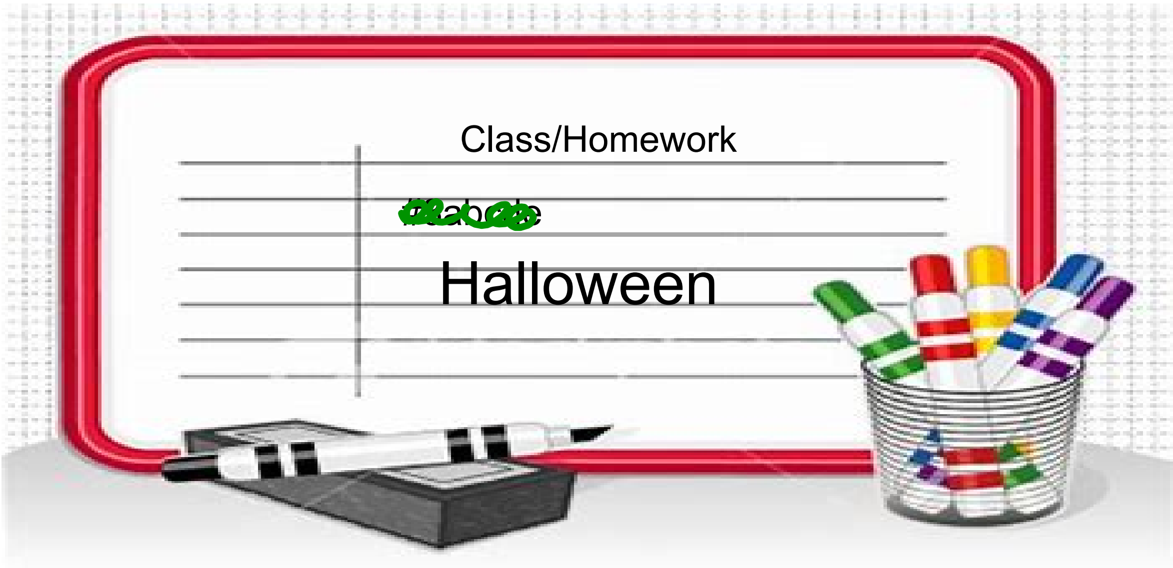


J(5, 10)

K(15, 20)

L(20, 30)

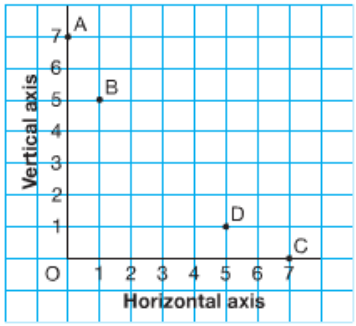
multiples of 5 so use scale of 10


Class/Homework
Halloween

Practice

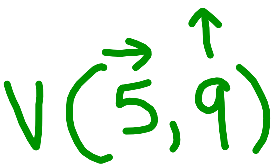
1. Match each ordered pair with a letter on the coordinate grid.

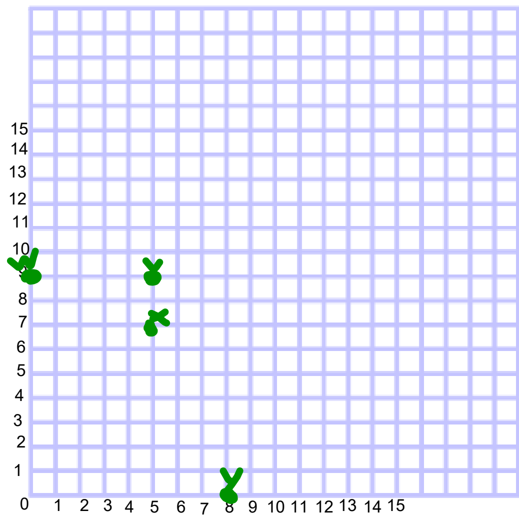
   a) (1, 5)
   b) (5, 1)
   c) (0, 7)
   d) (7, 0)



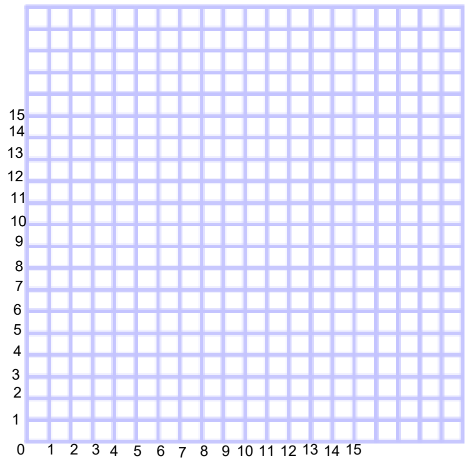
2. Draw and label a coordinate grid.
Plot each ordered pair.
Explain how you moved to do this.

a) V(5, 9) b) W(0, 9) c) X(5, 7) d) Y(8, 0)

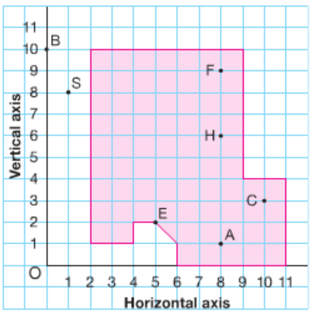




3. Draw and label a coordinate grid.
Plot each point on the grid.
a) P(2, 7) **b)** Q(6, 5) **c)** R(1, 4) **d)** S(0, 3) **e)** O(0, 0)



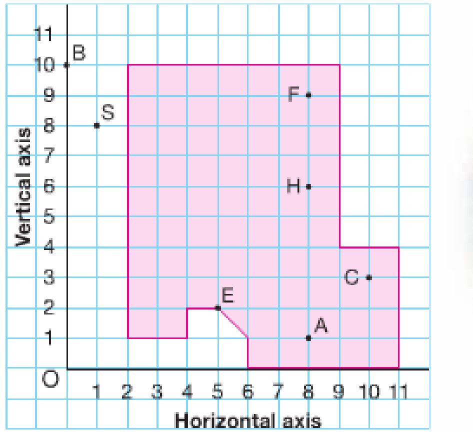
4. Mr. Kelp's class went to the Vancouver Aquarium. Angel drew this map of the aquarium site.



Write the ordered pair for each place.

a) Amazon Jungle Area: A
b) Beluga Whales: B
c) Carmen the Reptile: C
d) Entrance: E
e) Frogs: F
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?
   b) To get to the Clam Shell Gift Shop at point G:
      You move 5 squares left and 4 squares down from the sharks, H.
      What are the coordinates of G?



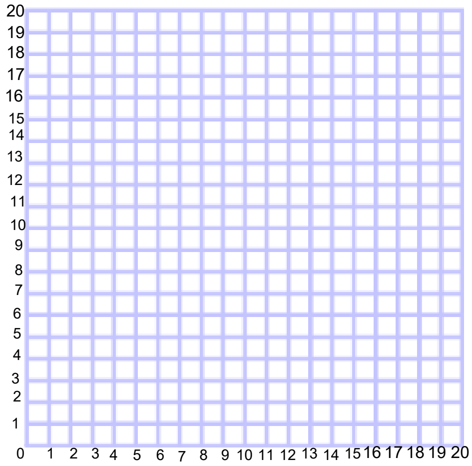
TIP

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)

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

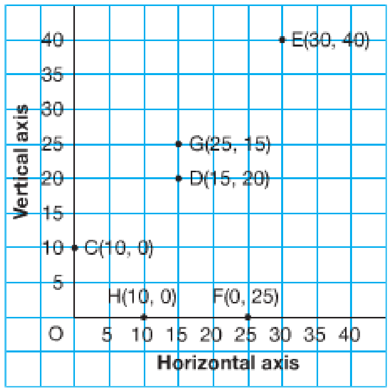
a) J(14, 20) **b)** K(6, 12) **c)** L(0, 18) **d)** M(8, 4) **e)** N(16, 0)



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.



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.
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?

Attachments

Pumpkin Graphing.pdf