Name: _____ Date: _____ Period: _____

3.1 Defining Coordinate Planes & Plotting Points DAY TWO CYU

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Plotting coordinates	1, 2		
Quadrant location	1, 2	3 - 16	
X and Y axes	1, 2	3 - 16	
Naming coordinates	17, 18	3 - 16	
Meaning of ordered pairs			17, 18
Creating a scatter diagram/plot			17 - 18
Stated trends			17 - 18

1 – 2: Plot each ordered pair and label it with its letter. State in which quadrant or on which axis each point lies.

1.   A) (1, 5)

B) (- 5, - 2)

C) (- 3, 0)

D) (0, - 1)

E) (2, - 4)

F) $\left(-1, 4\frac{1}{2}\right)$
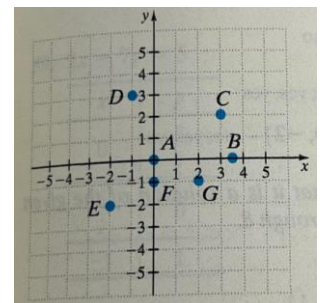
G) (3.7, 2.2)

H) $\left(\frac{1}{2}, -3\right)$
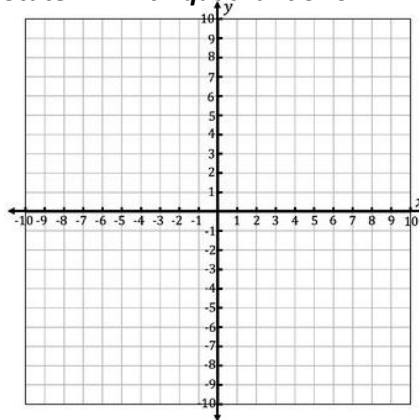
2.   A) (2, 4)

B) (0, 2)

C) (- 2, 1)

D) (- 3, - 3)

E) (5, - 4)

F) $\left(3\frac{3}{4}, 0\right)$

G) (- 3.4, 4.8)

H) $\left(\frac{1}{3}, -5\right)$
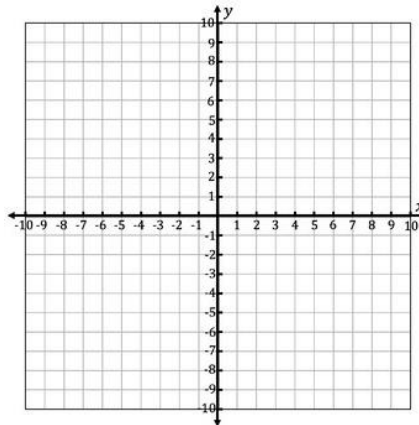
3 – 9: Find the x- and y-coordinates of each labeled point. State the quadrant too.

3. A

4. B

5. C

6. D

7. E

8. F

9. G

10 - 16: Find the x- and y-coordinates of each labeled point. State the quadrant too.

10. A
11. B
12. C
13. D

14. E
15. F
16. G
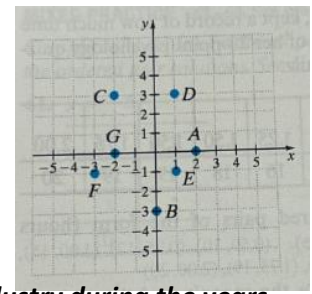
17. **The table shows the worldwide box office (in billions of dollars) for the movie industry during the years shown.**

Year	Box Office (in billions of dollars)
2010	21.0
2011	22.4
2012	23.9
2013	25.0
2014	28.0

a) Write this paired data as a set of ordered pairs of the form (year, box office).

b) In your own words, write the meaning of the ordered pair (2014, 28.0).

c) Create a scatterplot of the paired data. Be sure to label the axes appropriately and title the graph.

d) What trend in the paired data does the scatter diagram show?
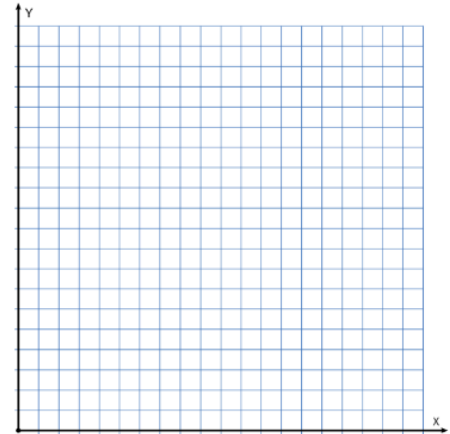
18. **The table shows the amount of money (in billions of dollars) Americans spent on their pets for the years shown.**

Year	Pet-Related Expenditures (in billions of dollars)
2011	51.0
2012	53.3
2013	55.7
2014	58.5

a) Write this paired data as a set of ordered pairs of the form (year, pet-related expenditures).

b) In your own words, write the meaning of the ordered pair (2014, 58.5).

c) Create a scatter diagram of the paired data. Be sure to label the axes and title the graph.

d) What trend in the paired data does the scatter diagram show?
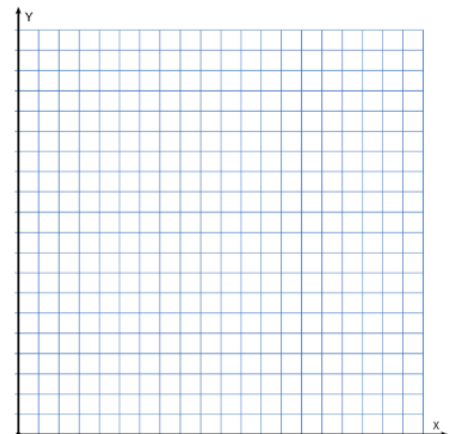
CYU Reflection: *How far can you go: basic, intermediate, or advanced?*
Rate your mastery level!
How confident are you with the skills this CYU covered? Circle the score you would give yourself.

1	2		3	4	5		6	7		8
Basic			Intermediate				Advanced			Solved ALL!