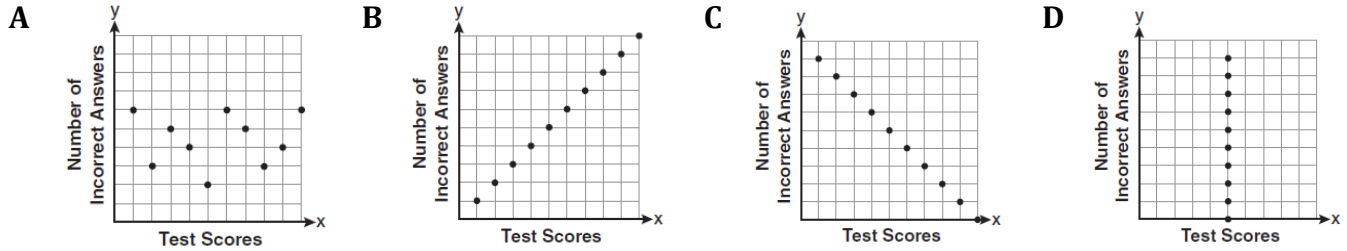
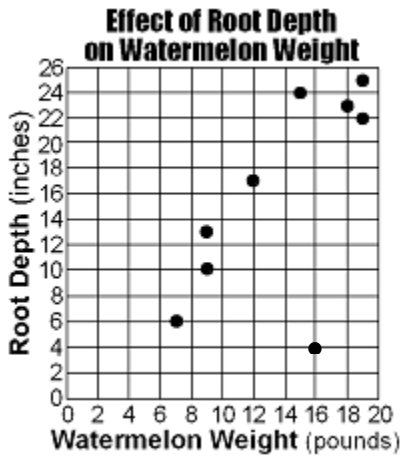


Directions: Select the choice that best answers each question.

1. Which scatter plot represents no association?

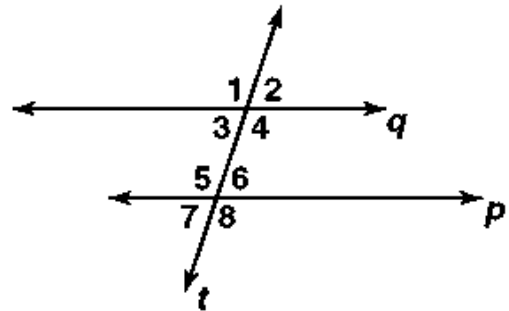


2. Which of the points shown on the scatter plot could best be described as an outlier?



- A (4, 16)
- B (15, 24)
- C (16, 4)
- D (7, 6)

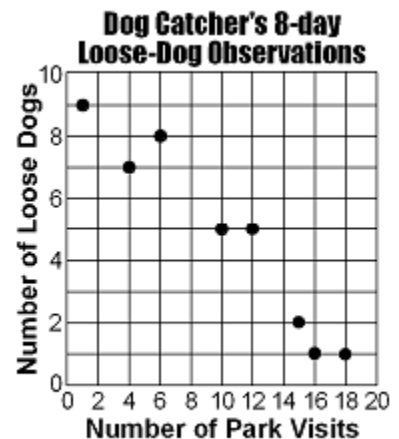
3. In the diagram below, lines p and q are parallel. Use the diagram to complete the following statements.



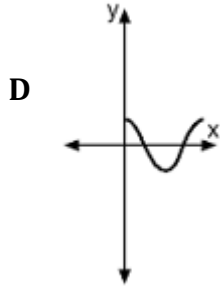
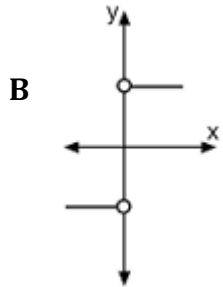
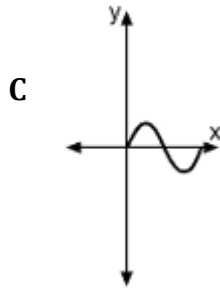
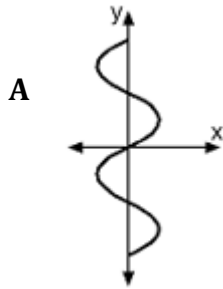
- $\sphericalangle 1$ is vertical to \sphericalangle _____
- $\sphericalangle 3$ is alternate interior to \sphericalangle _____

4. Which statement best describes the data shown?

- A As the number of loose dogs decreases, the number of park visitors increases.
- B As the number of loose dogs decreases, the number of park visitors decreases.
- C As the number of loose dogs increases, the number of park visitors increases.
- D This scatter plot has a non-linear association.



5. Which of the following relations is **not** a function?



6. Complete each statement.

A data point that is set apart from most other data points is called _____

- A** An outlier **C** An association
B Bivariate **D** A cluster

A _____ is a type of graph with points plotted to show the relationship between two sets of data.

- A** Cluster **C** Correlation
B Bivariate **D** Scatter Plot

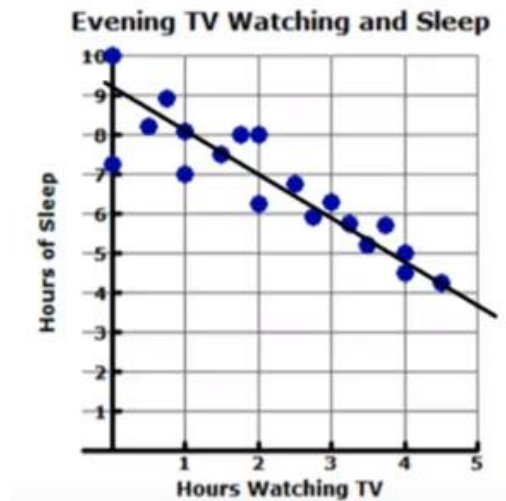
7. Monica surveyed people at a mall to determine the type of car they drive. Her data is displayed in the table below.

	Sport Utility Vehicle (SUV)	Sports Car	Totals
male	21	39	60
female	135	45	180
Totals	156	84	240

What percentage of the males surveyed drive a sports car?

- A** 35% **C** 65%
B 16.25% **D** 60%

8. The scatter plot below shows the hours of sleep a person gets compared to the hours of television they watch.



Predict the number of hours of sleep a person gets if they watch 5 hours of television.

- A** 4 hours **C** 8 hours
B 5 hours **D** 2 hours

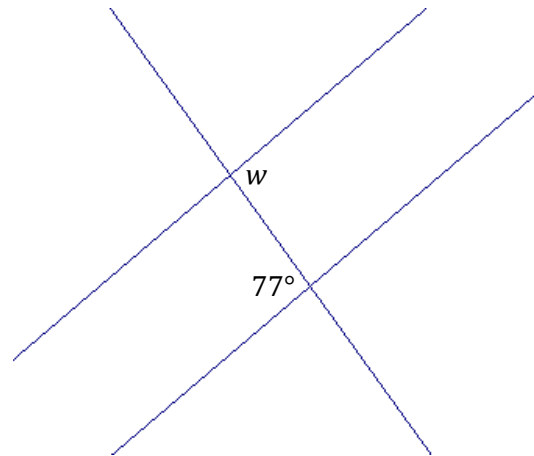
9. The scatter plot below represents the relationship between the time spent walking and the amount of weight lost per week.



Based on the data shown, which of the following statements is true?

- A As the amount of time increases, the amount of weight loss decreases.
- B Only one person walked for more than 3 hours.
- C Everyone in this survey lost at least 8 pounds.
- D This scatter plot contains a cluster.

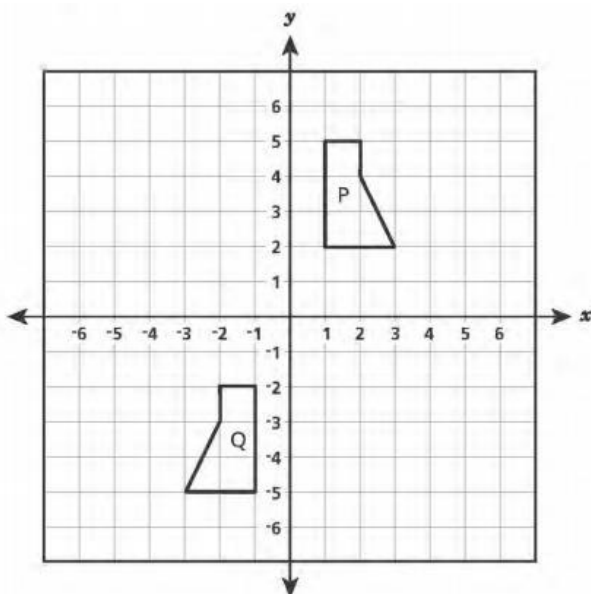
10. In the diagram below, parallel lines are cut by a transversal.



Which of the following statements correctly explains the value of w ?

- A 103° , because the angles shown are supplementary.
- B 77° , because the angles shown are vertical.
- C 77° , because the angles shown are corresponding.
- D 77° , because the angles shown are alternate interior.

11. Pentagon P and pentagon Q, shown below are congruent.



Which sequence could be used to transform pentagon P to pentagon Q?

- A a 180° clockwise rotation about the origin
- B a translation four units left and then a reflection over the x-axis
- C a reflection over the y-axis and then a translation seven units down
- D a translation seven units down and then a 90° clockwise rotation about the origin

12. John and Steve buy bags of dry pet food and cans of pet food. Each bag costs the same and each can of food costs the same. John pays \$17.20 for 5 bags and 6 cans of pet food. Steve pays \$11.20 for 2 bags and 6 cans of pet food. Determine the cost of each bag and can.

Show your work.

Answer \$_____ for each bag

\$_____ for each can

13. You randomly survey students about whether they ate or skipped lunch and breakfast. The results of the survey are shown in the two-way table.

Part A Complete the table.

		Breakfast		Total
		Ate	Skipped	
Lunch	Ate	40		52
	Skipped		0	
Total		48		

Part B How many students in the survey skipped breakfast but ate lunch? _____

Part C How many students in the survey ate lunch? _____

Part D How many students were surveyed? _____

14. Twenty students were surveyed. Eight students get an allowance and do chores. Eight students don't do any chores. Of the students that don't do chores, two of them get allowance.

Part A Complete the table.

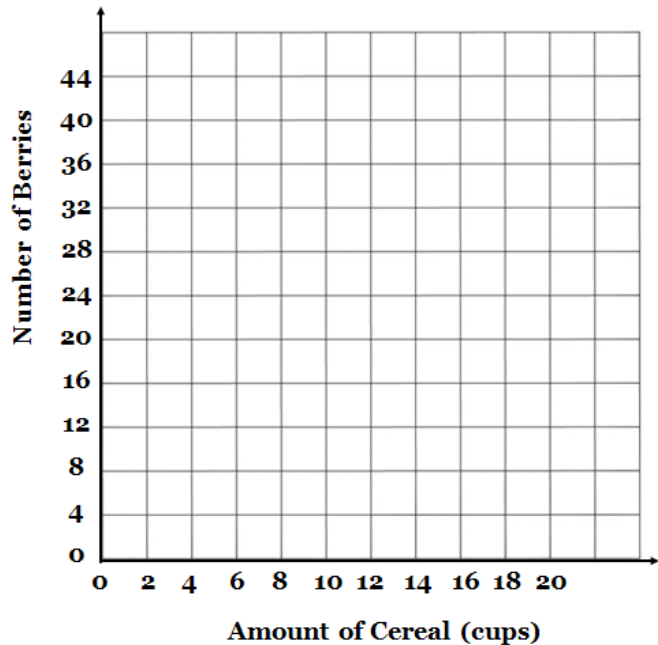
	Get Allowance	No Allowance	Total
Do Chores			
Don't do Chores			
Total			

Part B How many students don't do chores or get an allowance? _____

Part C What **percent** of students get an allowance? _____

15. Tyler collected data to show the relationship between the amount of cereal and the number of berries in his favorite cereal. Use the data table below to construct a scatter plot.

Cereal Amount (cups)	Number of Berries
2	6
6	12
12	24
14	30
8	18
4	12
10	18
18	42
16	36



Does the scatter plot have a positive, negative, or no association? _____

Describe the situation represented by this data.
