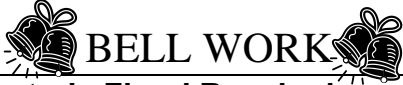


ANALYZING GRAPHS OF FUNCTIONS – Day 2



Foster's Flood Repair charges \$53 for a damage estimate and \$13.50 per hour to clean up after flood damage.

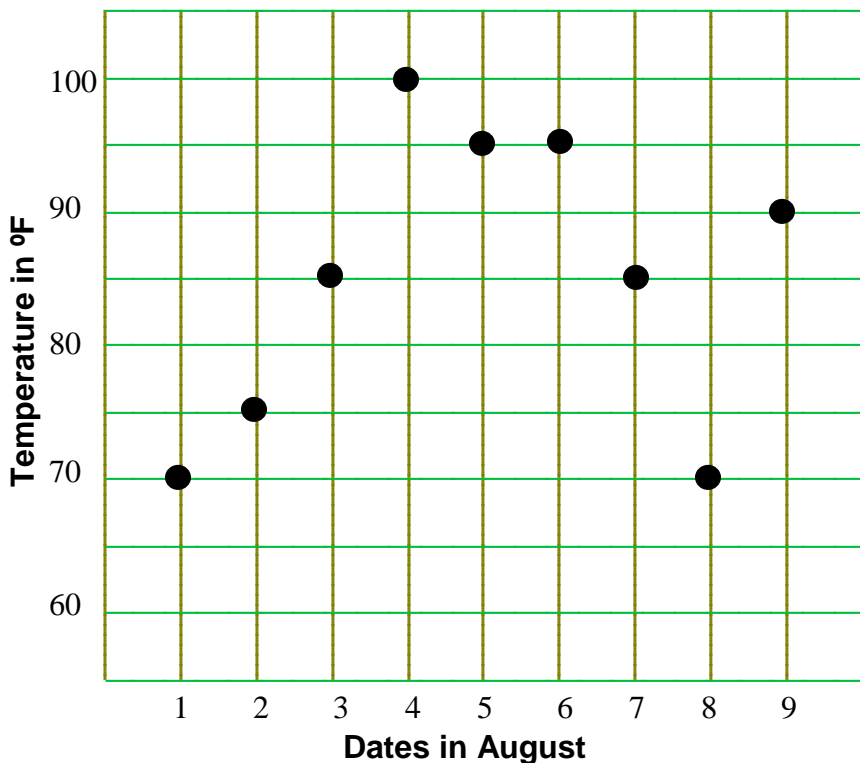
1. Which equation represents the relationship between the number of hours, h , and the total cost, c ?

A. $c = 53 + 13.50$	C. $c = 53h + 13.50$
B. $c = 53 + 13.50h$	D. $c = 53h + 13.50h$

2. If they work between 6 and 8 hours, what range of the function for this situation?

A. $134 \leq c \leq 161$	C. $6 \leq h \leq 8$
B. $\{6, 7, 8\}$	D. $\{134, 161\}$

The graph shows the daily high temperatures over the first 9 days of August.



1. What does the point (4, 100) represent for this situation?

2. What is the daily high temperature on August 8th? _____

3. When is the temperature 85°F?

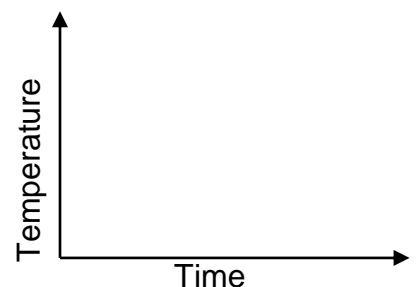
4. *Circle one:* Discrete or Continuous

5. On what domain is the daily high temperature less than 80°F?

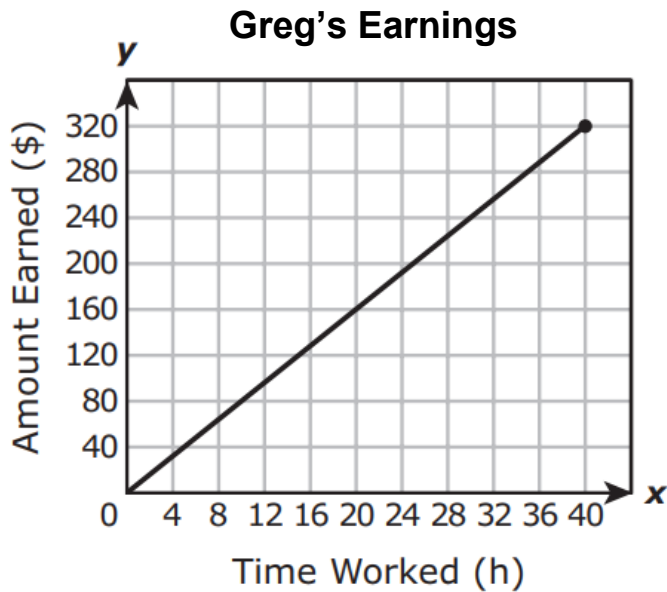
The air temperature increased steadily for several hours and then remained constant. At the end of the day, the temperature increased slightly again before dropping sharply.

6. Sketch a graph for the situation.

7. *Circle one:* Discrete or Continuous



The graph below shows the relationship between the number of dollars Greg earns and the number of hours he works each week.



8. How much does Greg earn in a week if he works 20 hours? _____

9. How many hours did Greg work if he earned \$320? _____

10. *Circle one:* Discrete or Continuous

11. If Greg can work a maximum of 40 hours, what are the domain and range of the function for this situation?

Domain: _____

Range: _____

At sea level, the atmospheric pressure is 14.7 pounds per square inch (psi). When diving in the ocean, the pressure of the water on a diver increases by 1.47 psi for each meter below the surface. The pressure of the water on the diver can be found using the function $y = 1.47x + 14.7$.

12. What does the variable x represent in this situation?

- A. The total amount of pressure the diver feels as he dives
- B. The number of meters the diver is below the surface of the water
- C. The number of minutes the diver is below the surface of the water
- D. The pressure at sea level

13. What is the pressure of the water on the diver at a depth of 12 meters? _____

14. What is the depth of the diver when the pressure on him is 36.75 psi? _____

15. According to the Professional Association of Diving Instructors, a human should dive no deeper than 39 meters. What are the domain and range for this situation?

Domain: _____ Range: _____

16. What does the ordered pair (100, 161.7) mean for this function?
