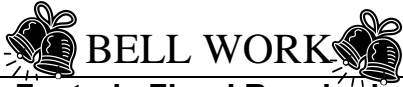# ANALYZING GRAPHS OF FUNCTIONS

BELL WORK

1. Foster's Flood Repair charges $53 for a damage estimate and $13.50 per hour to clean up after flood damage. Which equation represents the relationship between the number of hours, *h*, and the total cost, *c*?

A. c = 53 + 13.50

B. c = 53 + 13.50h

C. c = 53h + 13.50

D. c = 53h + 13.50h

Independent: _____

Dependent: _____

2. The Junior class is selling $20 prom tickets. The money raised will be given to the DJ for his services. Which best describes the dependent quantity in this situation?
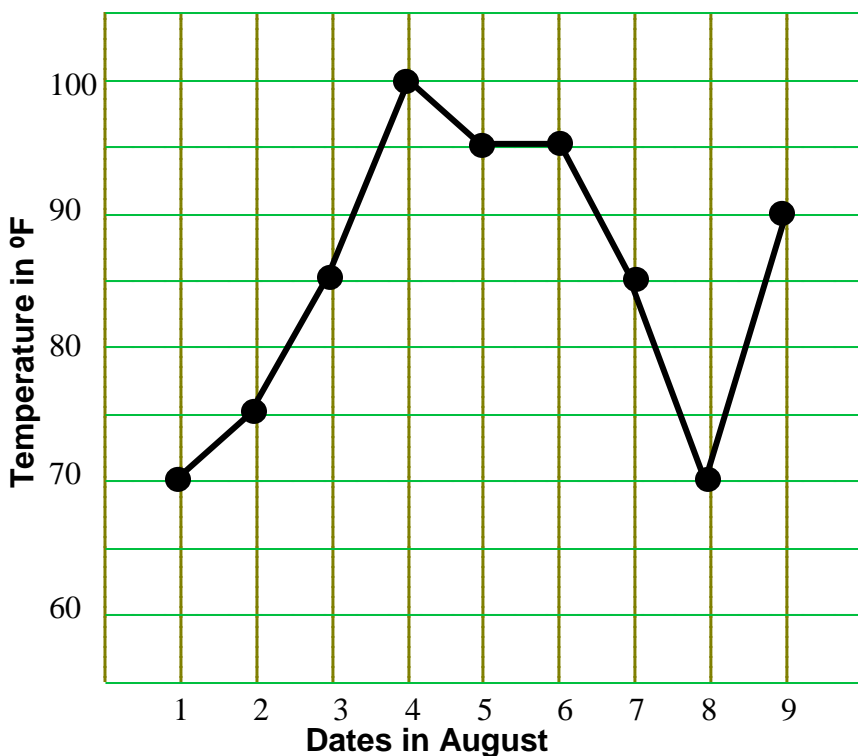
A. The number of tickets sold is dependent on the amount the DJ will earn.

B. The price of each ticket is dependent on the number of tickets sold.

C. The amount the DJ earns is dependent on the number of tickets sold.

D. The amount the DJ earns is dependent on the price of each ticket.

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

Write the ordered pair in words:_____

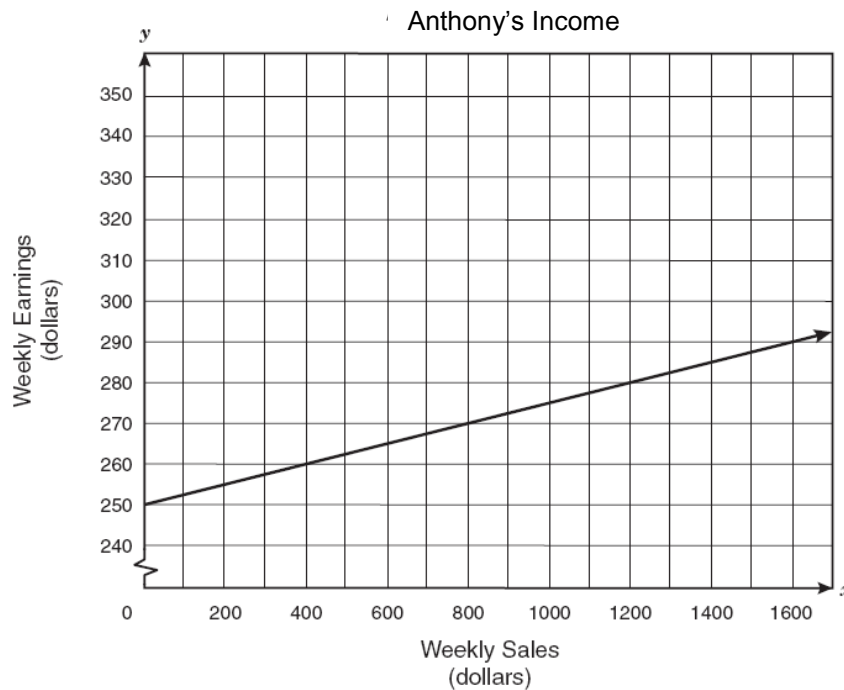What is the independent variable? _____

What is the dependent variable?_____

Does this represent a function? Yes or No

What is the temperature on August 8th? _____

When is the temperature 85° ? _____

Between which 2 dates does the temperature increase by the greatest number of degrees? _____

As a part-time employee at Electronic Bionic, Anthony earns a weekly salary plus a 2.5% commission on his total weekly sales. The graph below shows what Anthony's weekly earnings could be, depending on his weekly sales.

Anthony's Income

8. The _____ DEPENDS ON _____.

9. Find the value of E(800)= _____

10. Find the value of "s" when E(s) = 280: s = _____

11. Does this relation represent a function based on our definition? Yes or No

When diving in the ocean the relationship between the pressure of the water on the diver, *P*, and the depth of the diver, d, is described by the function *P = 1.47d + 14.7*

12. Complete the table using your calculator:

Depth (in meters)	2	4	6	8
Pressure				

13. Write the ordered pairs from the table:_____

14. The _____ DEPENDS ON _____.

15. Find the depth of the diver when the pressure is 36.75._____

16. Find the value of P(12)=

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

_____