

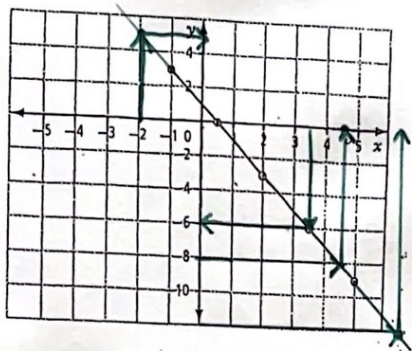
In-class Examples of Graph Interpretation

Definitions:

Interpolate: An estimate from INSIDE the data you already have.

Extrapolate: An estimate from OUTSIDE the data you have.

1) Use the graph below to predict



a) the value of y when $x = 3.5$

$$y = -6$$

b) the value of y when $x = -2$

*Use a ruler

to expand

$$y \approx 5$$

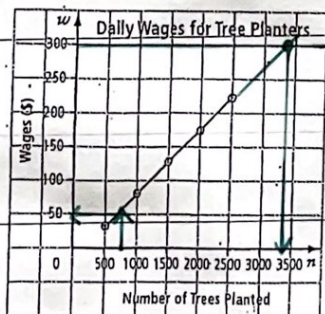
c) the value of x when $y = -12$

$$x \approx 7$$

d) the value of x when $y = -8$

$$x \approx 4.5$$

2) Use the following tree-planter graph.



a) How much would you make if you planted 750 trees?

$$\approx \$50$$

b) How much would you make if you planted 3000 trees?

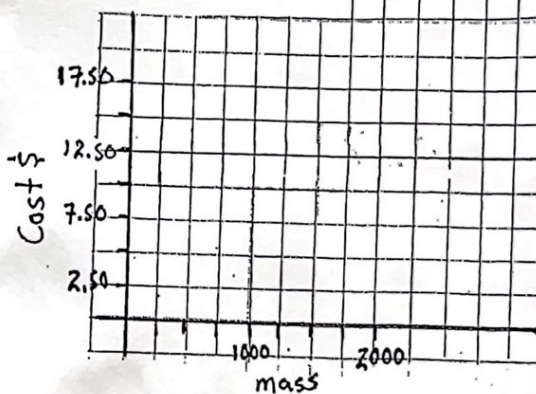
$$\approx \$275$$

c) If you made 300 dollars about how many trees did you plant?

$$\approx 3400 \text{ trees}$$

3) Plot the data on the axis provided

| Mass of Trail Mix (g) | 250 | 500 | 750 | 1000 | 1250 |
|-----------------------|------|------|------|------|-------|
| Cost, C (\$) | 2.40 | 4.80 | 7.20 | 9.60 | 12.00 |



b) From the graph 2125g of trail mix would cost???

c) How much trail mix could you get for \$13?

4) Can all graphs be extrapolated??

5) Can all graphs have connected points?