

Warmup 10/ (The product of the 2nd and 5th prime numbers)

Created by Mr. Lischwe

- 1) If 4 gallons of water drain out of the tank each minute, how long will it take for there to be only 50 gallons left in the tank?

Number of gallons in the tank	Minutes since the drain has been opened
141	11
113	18
77	27

50

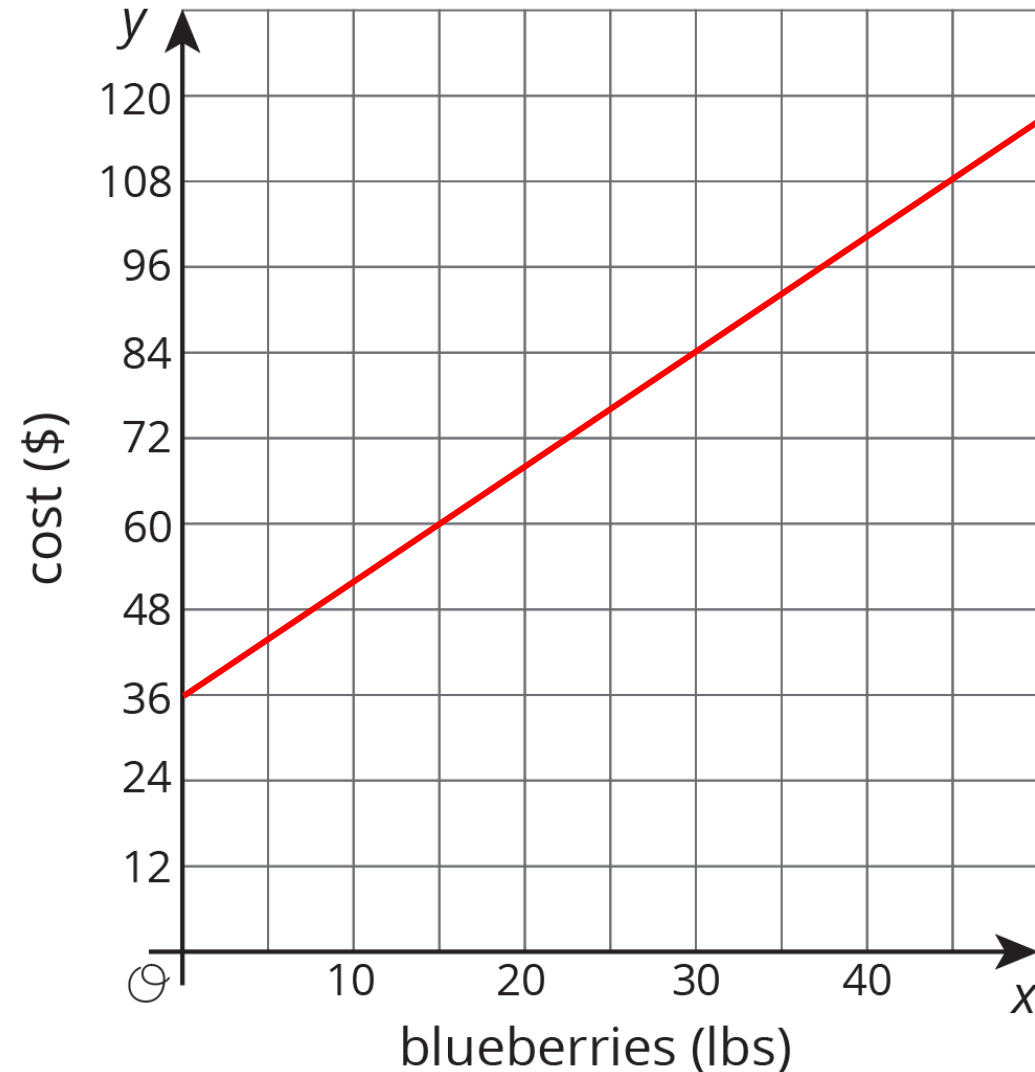
?

- 2) Write out the first 5 prime numbers.

Blueberries Problem = Expectations

- ❑ Your entire group is working together. All 3 or 4 of you need to be on the same page, at the same spot, etc.
- ❑ TWO people from each group need to write – one on each “side” of the table
- ❑ Each person in the group needs to understand your group’s process. I will be calling on random people to report what their group did. It is everyone’s responsibility to make sure everyone understands!

Different x- and y-axis scales...



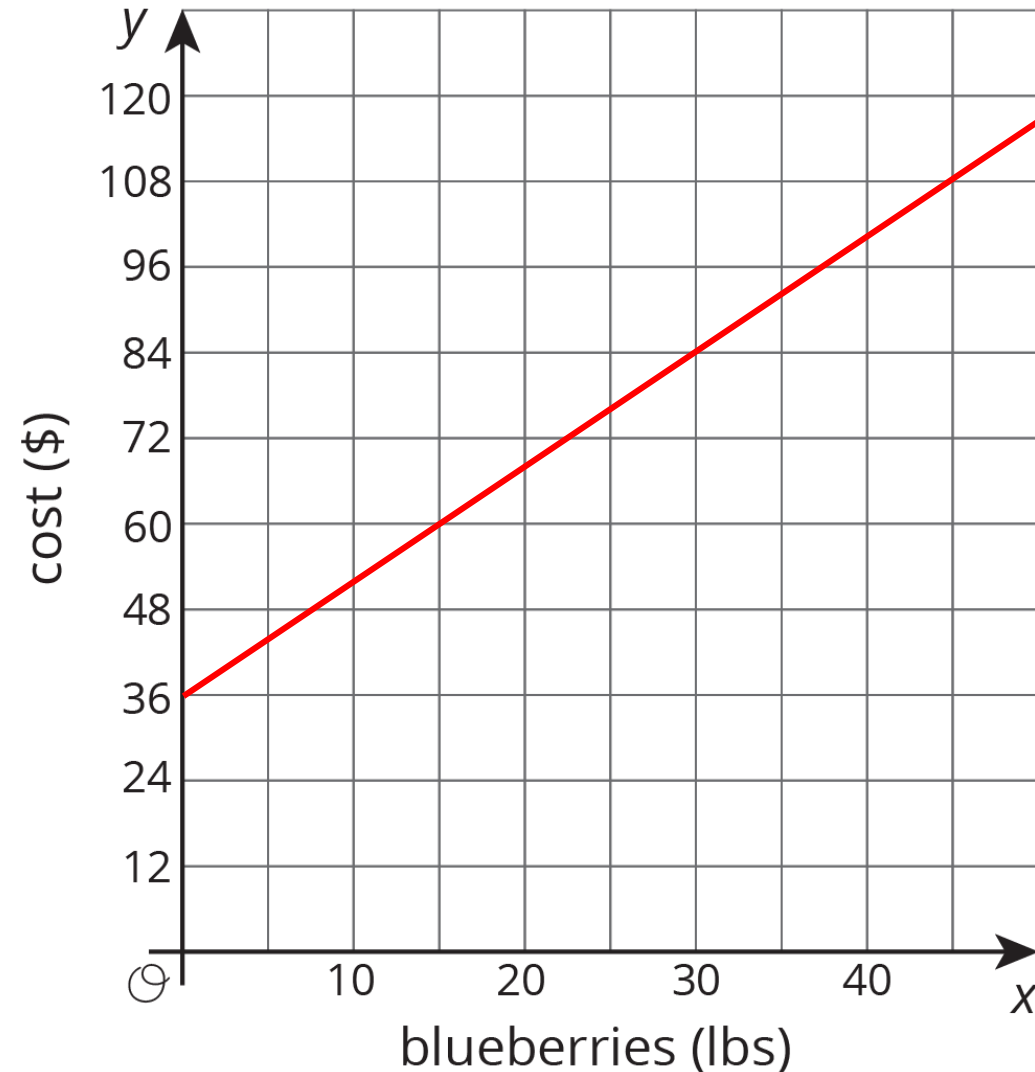
- 1) Find the slope of the line.
- 2) What does this slope represent in terms of the situation?
- 3) Convert your slope into a precise dollar amount.

1) $\frac{24}{15} \rightarrow \frac{8}{5}$

2) # of dollars per pound of blueberries

3) $\frac{8}{5} = 1\frac{3}{5} = 1.6 = \1.60

Different x- and y-axis scales...



4) How much would 90 pounds of blueberries cost?

\$1.60 per pound

$$y = 1.60x + 36$$

$$y = 1.60(90) + 36$$

$$y = 144 + 36$$

\$180 for 90 lbs

Pablo the Artist Problem



Pablo the Artist Problem

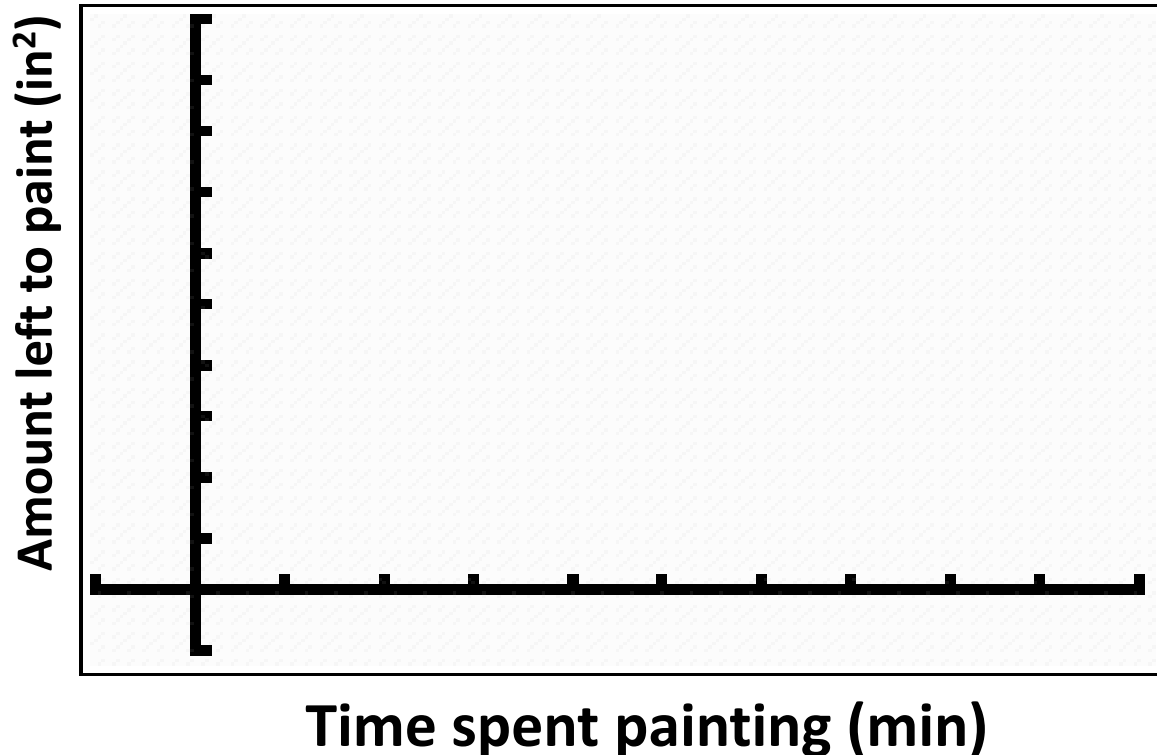


Pablo the Artist Problem

Pablo the artist is about to start working on a masterpiece painting. The painting will be 400 square inches. After putting in a good 90-minute painting session, he only has 340 square inches left to paint.

1) Graph the scenario:

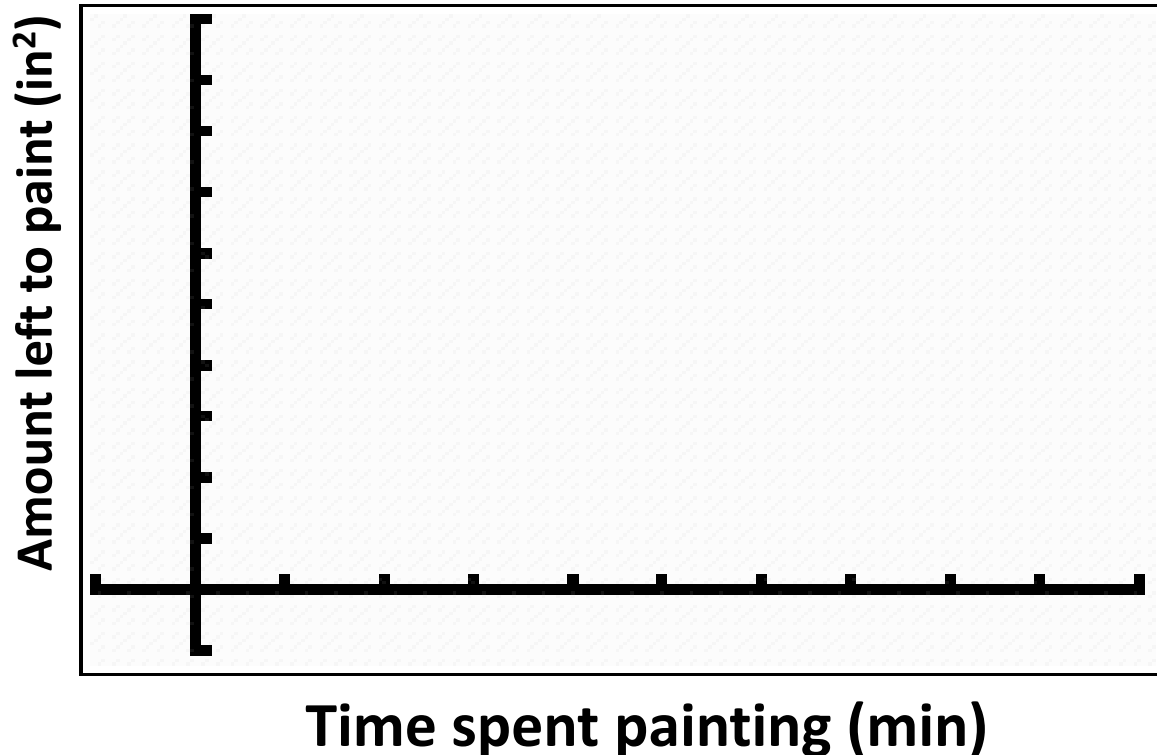
2) Write an equation of the line you just drew.



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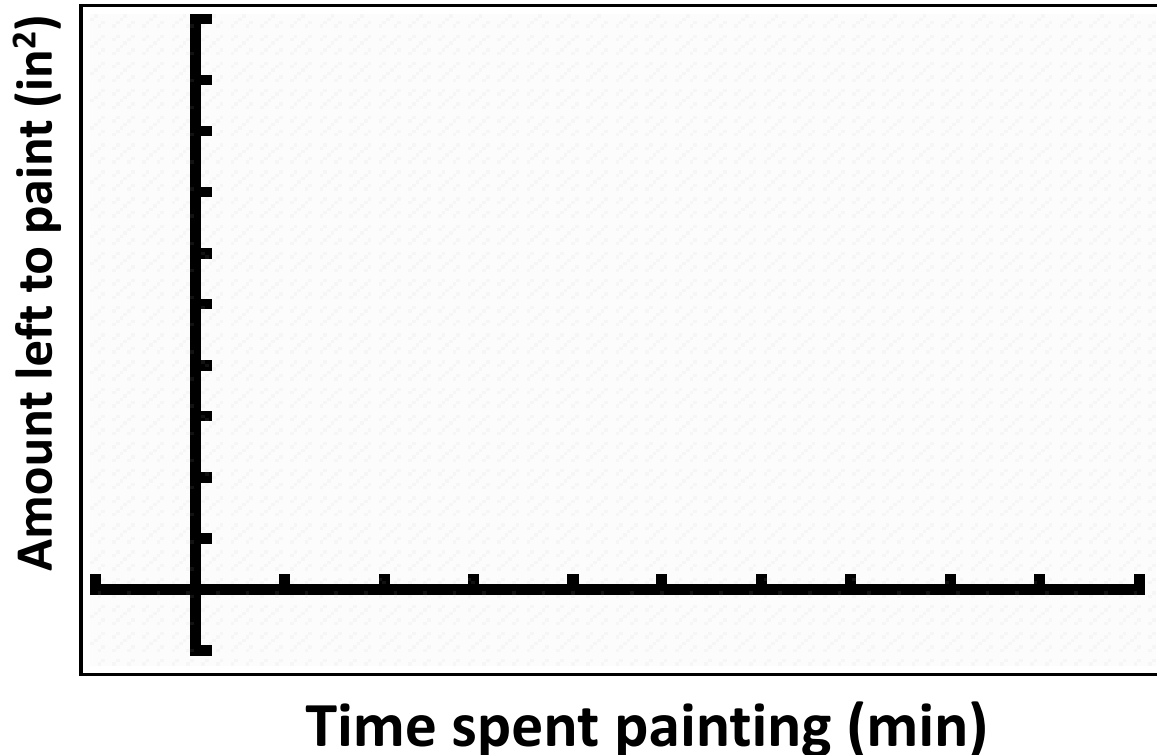
3) Explain what the slope means in terms of the situation.



Pablo the Artist Problem

Pablo the artist is about to start working on a masterpiece painting. The painting will be 400 square inches. After putting in a good 90-minute painting session, he only has 340 square inches left to paint.

4) If Pablo continues to paint at this pace, how long will it take him to finish his masterpiece?



DUE TOMORROW:

Table/Equation/Graph/Situation Problems