

Put up your phones, grab a chromebook,
and have out your homework.
Log into quizlet live with the code
202-596

Functioning Well

$$6. p = f(E) + 2$$

$$7. \underline{p = 2f(E)}$$

$$8. p = f(E + 2)$$



$$f(n) = 2^n$$

$$9. f(1) = 2$$

$$f(2) = 4$$

⋮

$$10. f(n) = 3^n$$

$$f(1) = 3^1$$

$$= 3$$

$$f(2) = 3^2$$

$$= 9$$

Graphing Stories

Painting the Bridge

Painting the bridge

A group of workers are planning to paint a bridge.

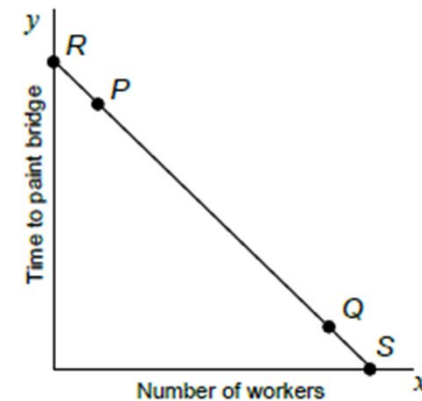
x = the number of workers

y = the length of time it will take the workers to paint the bridge



Painting the Bridge

- What does point P tell you?
- What about point Q?
- What about points R and S, where the line crosses the graph?
- How can we change this graph so that it is a better model of the situation?

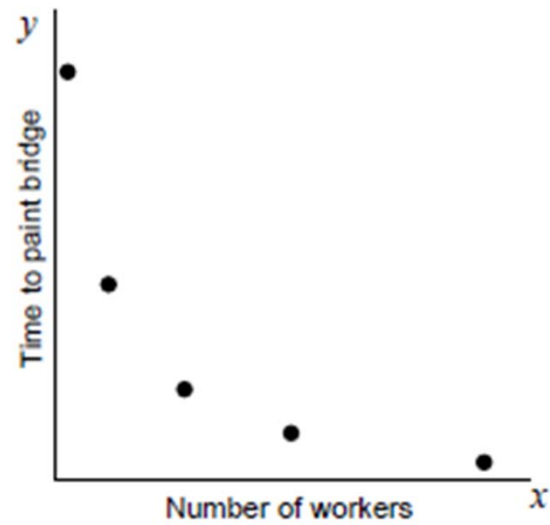


Painting the Bridge, Revised

$5w \rightarrow 8 \text{ hrs}$
 $10w \rightarrow 4 \text{ hrs}$
 $20w \rightarrow 2 \text{ hrs}$

- Suppose we know the time it takes for a specific number of workers to paint the bridge.
- What would happen if we doubled the number of workers that paint the bridge?
- What would this look like on the graph?
- If we halved the number of workers, what would this look like?
- Will these points be a straight line?
- What shape will these points make?

Painting the Bridge, Revised



Card Matching Activity

- Work together to match the graph and equation to the correct scenario.
- Make sure that everyone understands why the graph, equation, and scenario match.
- Sketch the graph and write the equation and answer on your own sheets.

Homework

- Finish the card matching if your group did not finish.
- Study for the quiz.