

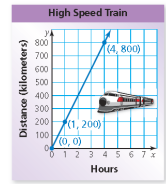
Math 7 - Unit 3

Day 7 - Interpreting Graphs of Proportional Relationships

Lesson Objectives:

- I can determine whether quantities are proportional by graphing on a coordinate plane.
- I can explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation.

The distance traveled by a high speed train is proportional to the number of hours traveled. Interpret each plotted point in the graph.



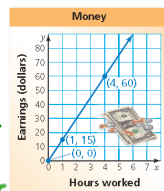
- $(0, 0)$ At the beginning of the trip, the train hasn't moved anywhere yet.
- $(1, 200)$ In one hour, the train has traveled 200 km. The unit rate is 200 km/hr.
- $(4, 800)$ In 4 hours, the train has traveled 800 km.

Interpret each plotted point in the graph of the proportional relationship.

$(0, 0)$ At the beginning of the day, you haven't earned any money.

$(1, 15)$ After 1 hour, you've earned \$15. The unit rate, or pay rate, is \$15 per hour.

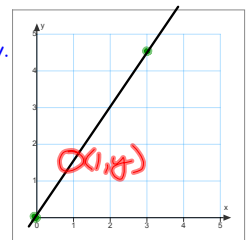
$(4, 60)$ After 4 hours of work, you've earned \$60.



In the graph of a proportional relationship, you can find the unit rate from the point $(1, y)$.

The graph of a proportional relationship passes through $(3, 4.5)$ and $(1, y)$. Find y .

$$y = 1.5$$

Homework

Interpreting Proportional Relationships WKS

* Individual Think Time *



What to do if you get stuck...

- Reread the problem. Did you write it down correctly?
- Reread your notes. Is there a problem similar that we did together in class?
- Find a problem similar in your book. Try this one to see if it helps.
- Skip the problem until the end of Individual Think Time. Then ask an "educated" question of a neighbor or Mrs. Call.

Today we're working by...

