



2-5 Additional Practice

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- 1. Leveled Practice** The graph and the table show the total cost to the number of pairs of jeans purchased at two different stores. Which store charges the higher cost for a pair of jeans?

Find the unit rate (constant of proportionality) for Jenny's Jean Store.

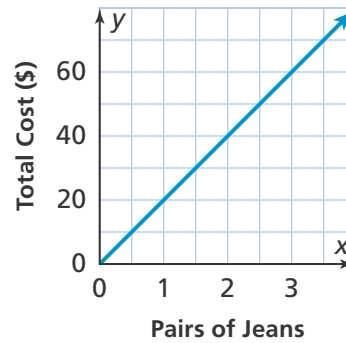
$$\frac{\text{cost}}{\text{pairs}} = \frac{\boxed{}}{\boxed{}} = \$ \boxed{} \text{ per pair}$$

Find the unit rate (constant of proportionality) for Jean Warehouse.

$$\frac{\text{cost}}{\text{pairs}} = \frac{\boxed{}}{\boxed{}} = \$ \boxed{} \text{ per pair}$$

So charges the higher rate.

Jenny's Jean Store

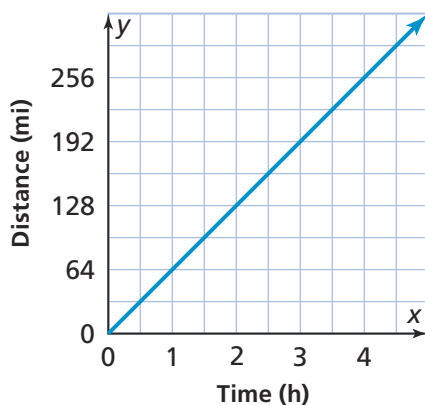


Jean Warehouse

Pairs of Jeans	2	3	4	5
Total Cost (\$)	36	54	72	90

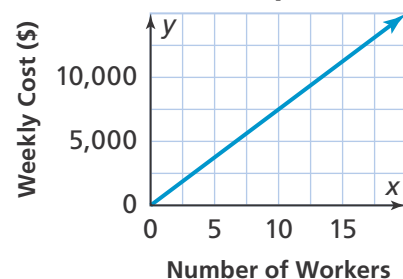
- 2.** The graph shows the average speed of Car 1 which is traveling on a highway. The equation $y = 55x$ represents the average speed of Car 2, where y is the distance in miles and x is the time in hours. Which car is traveling at the greater speed?

Speed of Car 1



- 3.** The graph shows a proportional relationship between the number of workers and weekly cost, in dollars, for a company in its first year. The following year, the company spends \$7,200 per 12 employees. Did the rate increase or decrease the following year?

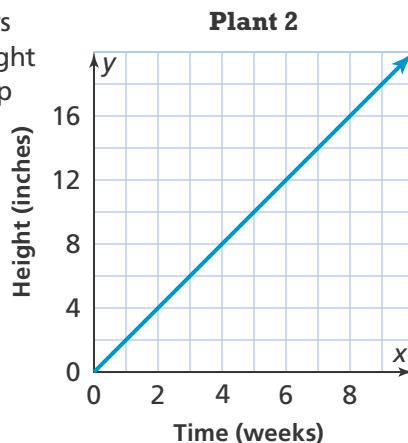
Weekly Costs



4. Corey compares the heights of two plants to see which plant grows more per week. The table shows the relationship between the height and number of weeks for Plant 1. The graph shows the relationship between the height and number of weeks for Plant 2.

Which plant grows at the faster rate?

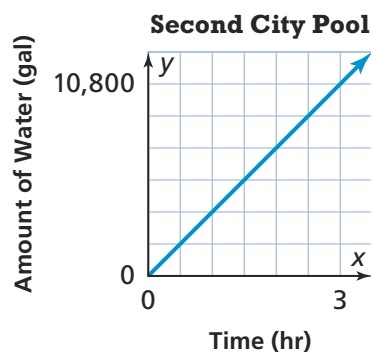
Plant 1				
Weeks	2	3	4	5
Height (inches)	8	12	16	20



5. **Higher Order Thinking** At the beginning of summer, a maintenance crew refills a swimming pool at a city park. The relationship between the time in hours to fill the pool and the amount of water in the pool is proportional. After 4 hours, the pool holds 5,200 gallons of water.

a. How could you graph this relationship?

- b. The same crew refills a second pool as represented by the graph shown. Is the second pool filled at a faster or a slower rate than the first pool? Explain.



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6. The graph shows the relationship between the time in minutes and the number of milk cartons that Machine 1 can fill. The equation $y = 22x$ describes the rate at which Machine 2 can fill cartons where x is the number of minutes and y is the number of cartons filled.

PART A

What is the unit rate for each machine?

PART B

Which machine can fill cartons at a faster rate?
How much faster?

