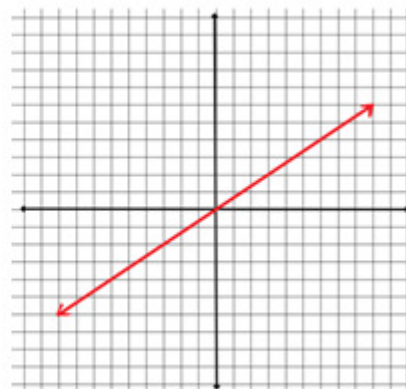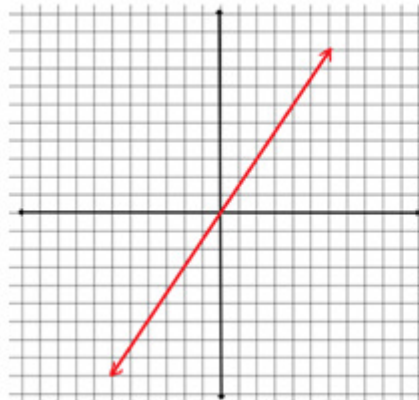LearnZillion

Compare Proportional Relationships

1. Which has the greater rate of change? Circle the correct choice and tell how you know.

    a. A car that drove at 80 miles per hour, or a car that went 50 miles in 35 minutes

    b.

x	y
0	0
1	5.2
2	10.4
3	15.6
4	20.8

x	0	15	30	45	60
y	0	75	150	225	300

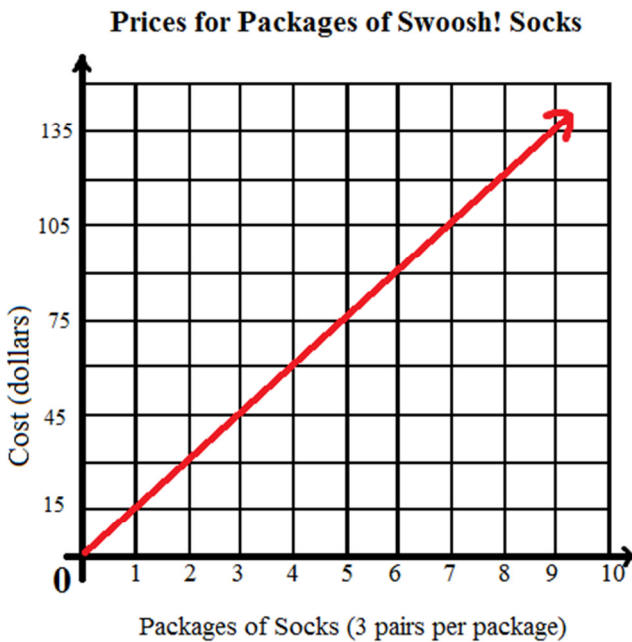

    c. $y = \frac{2}{3}x$ or $y = 0.7x$

2. When you are instructed to compare proportional relationships represented in different ways, what aspect of the relationships are you comparing? What must you do in order to make the comparison?

3. Coach Nadine is stocking up on "Swoosh" Brand athletic socks for her team.

This graph represents the price Coach Nadine would spend on the socks at

store A:

Store B: sells a 2-pair package of the same socks for $12.50.

Prices for Packages of Swoosh! Socks

Cost (dollars) vs. Packages of Socks (3 pairs per package)

Store C: only sells those socks in bags of 5 pairs; it has this table in its advertisement:

Bags of Socks	1	2	3	4	5
Price	$27.50	$55.00	$82.50	$110.00	$137.50

Store D: $y = 4.95x$ (x = number of pairs of socks purchased and y = total cost in dollars).

If Coach Nadine wants to buy 6 pairs of socks for each of her 15 team players, how much would she spend at each store? List the stores in the order of their prices for each pair of "Swoosh" Socks from least to most expensive.