Pay 2: Unit Kates

Determine the unit rate for each problem:

- a. 192 students in 4 buses: 192 students = 48 Otudents per bus
- b. 3 pizzas for \$19.99: 3 pizzas = 3 6.106 per pizza

 c. 357 miles in 5 hours: 5 hours = \$71.4 miles per hour
- 2. Use the unit rate to find the total:
 - a. Ayanna buy 5 hats at \$9.99 each. How much does she spend? 949.95 \$9 99 x 5 hato
 - b. Jade writes an 8 page paper with 250 words per page. How many words are in the report? 2000 words 8 puggs x 250 words
 - c. Yolanda works for 7 hours at \$10.25 per hour. How much does she earn? \$71.75 \$10.25 x 7.
- 3. Jacqueline drives 825 miles to California. The trip takes her 17 hours. She uses 38 gallons of gas on the trip, which cost her \$125.
 - 825 miles 17 hours a. Find her speed: 48,5 miles per hour
 - b. Find her gas mileage: 21.7 miles per gollow
 - c. Find the unit price for gas: 3.29 per gallun
- 826 miles 38 gallons
- 38 oplimo

4. Which size Gatorade is the better deal?

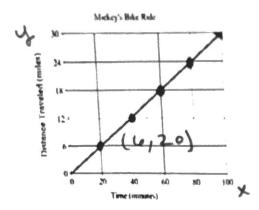
Catorade

	Galulaut						
1	Size (oz)	Price (\$)					
	16	\$1.39 \$1.89					
	24						
	32	\$2.69					
	64	\$5 19					

$$\frac{$5.19}{6407} = 9.081$$

The 24 oz Gatorade is the better deal.

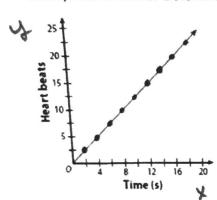
Find the unit rate for each graph. Express your unit rate in real world terms.



.3 miles per minute

can use any ordered

6. The equation 1.2x represents the rate, in beats per second that Chase's heart beats. The graph represents Nancy's heart beats. Determine whose heart is beating at a faster rate.



Chase: 1.2 beats per minute.

Manay: 5 beats = 1.25 beats per minutes

Mancy's heart beats gaster Chase's.

7. Under Plan A, a 2 minute call costs \$0.54 and a 4 minute phone call costs \$1.08. Under Plan B, the cost for x minutes is given by 0.289x. Which plan is cheaper? Why?

Plan A: \$0.54 = \$0.27 perminute
a min

Plan A is about FO.02 Cheaper perminute than Plans.

Plan B:0,289 X - about \$0,29 per minu

8. The equation y = 13x represents the rate, in gallons per minute that Tank A at an aquarium fills with water. The table represents the rate that Tank B fills with water. Determine which tank fills faster.

,						
	Time (min)	4	12	15	20	
	Amount (gal)	44	132	165	220	

Tank A fill faster by 2 gallons a minute.