January 19, 2017 10:25 AM

Name: Ashley D Section 4.2 Rates and Unit Rates

Date:

 Find the unit rate for each of the following. Show your work with the space given: 		
a) 5L of milk for \$8.75	b) 3 Candy Bars for \$2.75	c) 120meters in 13 seconds
5	2.75÷3 = 0.916	$\frac{D}{T} = \frac{120}{13} =$
8.75 ÷ 5 = 1.75		9.2307
f) \$2048 in 4 days	e) One dozen eggs for \$3.40	f) 6 pairs of socks for \$18.50
4	12	6
2048 ÷ 4 = 512	3.40-12=0.283	18.50 - 6 = 3.083
g) \$3.75 for 6 bagels	h) 84 students in 7 teams	i) 154 slices of pizza for 14 people
/		' <u></u>
6	84-7 = 12	14 = 154-14=11
3.75 - 6= 0.625		
j) \$3.90 for 400g of cereal	k) \$4.55 for 350mL of shampoo	L) \$9.25 for 18 cans of Juice
400	350	18
3.90-400=0.00975	4.55-350=0.013	9.25-18=0.5138

2. Jack drove at 80km/h. How far will he drive in 6 hours?

3. If six bus tickets costs \$14.70, how much would 11 tickets cost?

14.70 ÷ 6 = 2.45 26.95
11 +ickels cost
$$\frac{9}{2}$$
26.95

4. If 5 movie tickets cost \$25.75 at the theatre, how much will 12 tickets cost?

$$25.75 \div 5 = 5.15$$
 $5.15 \times 12 = 61.80$

12 tickets cost \$61.80

5. If \$1 US costs \$1.09 Canadian, then how much would \$1 Canadian costs in US dollars.

$$\frac{1 \text{ USD}}{\chi} = 1.09 \text{ CAD}$$

$$\frac{1}{109} = \frac{1.09 \text{ CAD}}{1.09}$$

$$\frac{1}{109} = \frac{1.09 \text{ CAD}}{1.09} = 0.917 \text{ U} = \chi$$
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6. Peanut butter is sold at Costco, Superstore, and Safeway. Costco is selling at \$7.85 for 2L, Superstore at \$3.85 for 500ml, and Safeway at \$4.25 for 1L. What is the unit rate for peanut butter from each store? Which store will you buy from?

$$\frac{7.85 \text{ for 2L}}{2} \frac{3.85 \text{ for 500}}{2} \frac{4.25 \text{ for 1L}}{2}$$

$$= 3.925 = 7.70 = 4.25$$

7. Tim earns \$2193.00 for 30 hours work and his wife earns \$3244 for 45 hours of work. Who has a higher rate of pay and by how much?

$$2193 \div 30 = ^{4}73.10$$

of pay and by how much?
$$73.10$$

$$2193 \div 30 = 73.10$$

$$3244 \div 45 = 72.08$$

$$- 72.08$$

cost and the unit price of each pencil?

cost and the unit price of each pencil?
$$\frac{145}{1000} = 0.1215 \approx 0.15 - 0.15$$

$$\frac{-0.15}{0.23}$$

9. Rogers offer monthly phone plans at \$45.00 a month and \$0.05 per minute. Mobilicity offer monthly phone plans at \$15.00 a month and \$0.20 per minute. If James uses 800 minutes a month, which phone plan should he get? How much will he save?



$$\frac{800}{40}$$
 $\frac{40}{85}$

800 40

$$\frac{\times 5}{40} = \frac{45}{85}$$

Mobilicity

800 | 160 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 1

10. A case of 12 bars of chocolate costs \$25.75. 3 chocolate bars is sold at \$7.20. How much is saved per chocolate bar if I purchase a case?

$$7.20 \div 3 = 2.40 - 2.45 - 0.25$$

11. Kins Market is selling tomatoes at 3 for \$1.25. However, if you buy 4 you get 1 free. If Jason bought 9 tomatoes, how much will it cost? What is the unit rate?

Unit rate = 4/2 \$

$$\frac{x + 4 \times 2}{1.68}$$
The would cost \$\frac{4}{3.36}\$
$$\frac{x + 4 \times 2}{1.68}$$
The would cost \$\frac{4}{3.36}\$