Pre-Algebra
Unit 7: Better Buy

For each exercise below, rates are given in Column A and Column B. In the blank next to each exercise number, write the letter of the column that contains the better buy.

Be sure to show the rate as a fraction & then as a unit rate for each one!!

Column A	**Column B**
_____ **1.** 1 apple for $0.19	3 apples for $0.59
_____ **2.** 20 pounds of pet food for $14.99	50 pounds of pet food for $37.99
_____ **3.** A car that travels 308 miles on 11 gallons of gasoline	A car that travels 406 miles on 14 gallons of gasoline
_____ **4.** 10 floppy discs for $8.99	25 floppy discs for $19.75
_____ **5.** 1-gallon can of paint for $13.99	5-gallon can of paint for $67.45
_____ **6.** 84 ounces of liquid detergent for $10.64	48 ounces of liquid detergent for $6.19
_____ **7.** 5000 square feet of lawn food for $11.99	12,500 square feet of lawn food for $29.99
_____ **8.** 2 compact discs for $26.50	3 compact discs for $40.00
_____ **9.** 8 pencils for $0.99	12 pencils for $1.49
_____ **10.** 1000 sheets of computer paper for $8.95	5000 sheets of computer paper for $41.99

PRE-ALGEBRA
CHAPTER 8-1 USING UNIT RATES TO SOLVE PROBLEMS

Your pulse rate is the number of times your heart beats in one minute. A typical human heart rate is 72 beats per minute.

1. Find your pulse by placing your index and middle fingers on your carotid artery (at the side of your neck). Count the number of beats in 10 seconds.

2. Use the information in #1 to write a unit rate for beats/10 seconds.

3. What is your pulse rate? Is it typical, according to the average mentioned above?

4. What number of beats/10 seconds would you give an exact rate of 72 beats/min?

5. Do jumping jacks for 30 seconds. Take your pulse again. What is your exercising heart rate?

6. Is the method we are using giving us an exact heart rate, or an estimate? Explain.