Name: Key

Unit 1 Quiz 1

Complete the following Bucky the Badger charts, **remember Bucky does pushups based on the score of the game.**

Points	Score	Total Pushups
3	3	3
3	6	9
7	13	22
7	20	42
3	23	65
3	26	91

Points	Score	Total Pushups
7	7	7
3	10	17
7	17	34
7	24	58
7	31	89
3	34	123

3. Brantley is driving to his baseball tryouts and notices that his gas tank is getting close to empty. He is driving 75 mph and it should take him 1 hour 30 minutes to get to his exit. Brantley' car gets 17 miles per gallon on the highway. Gas is currently $2.35 a gallon.
   a. How fast is Brantley going? 75 mph
   b. How far will he go in 1 hour? 75 miles
   c. How far will he go in 30 minutes?(round to the nearest whole number) 38 miles
   d. How far will he go in 1 hour 30 minutes? (HINT: Use answers in a. and b.) 113 miles
   e. Using 1 gallon of gas, how far will he go? 17 miles
   f. About how many gallons does he need to get to the gas station? (round to the nearest whole number) 7 gals
   g. If gas costs $2.35 per gallon, about how much will Brantley spend? (remember this is money) $16.45
   h. If it costs $2.35 to travel 17 miles, how much will Brantley spend to travel one mile on the freeway? (remember this is money) 14¢

4. Rachel is driving to her cheerleading competition and notices that her gas tank is getting close to empty. She is driving 80 mph and it should take her 1 hour 15 minutes to get to her exit. Rachel's car gets 32 miles per gallon on the highway. Gas is currently $2.75 a gallon.

   a. How fast is Rachel going? 80 mph
   b. How far will she go in 1 hour? 80 miles
   c. How far will she go in 15 minutes? (round to the nearest whole number) 20 miles
   d. How far will she go in 1 hour 15 minutes? 100 miles (HINT: Use answers in a. and b.)
   e. Using 1 gallon of gas, how far will she go? 32 miles
   f. About how many gallons does she need to get to the gas station? (round to the nearest whole number) 3 gals
   g. If gas costs $2.75 per gallon, about how much will Rachel spend? (remember this is money $8.25
   h. If it costs $2.75 to travel 32 miles, how much will Rachel spend to travel one mile on the freeway? (remember this is money 9¢

5. Given that 22 x 48 = 1056, find the following **(no calculators)**

a. 22 x 4.8 = 105.6

b. 1056 ÷ 4.8 = 220

c. 480 x 22 = 10560

d. 10560 ÷ 48 = 220