

“Gym Membership” & “Break Even” Story Problems

Name _____ Hr _____

<p>1. Giant Gym charges a registration fee of \$50 plus a monthly fee of \$20. Johnny’s Gym charges \$75 to join, but only \$18 a month. After how many months do they cost the same?</p>	<p>2. Super Dee-Duper Duplex Company charges \$1,000 deposit to move in, plus \$800 a month for rent. Duplex Duos charges \$1200 as a deposit, but only \$775 a month for rent. After how many months will their costs be equal?</p>
<p>3. Cell Phones-4-All charges \$35 a month for the cell phone service, plus \$10 per 1 GB of data. Phones-4-U charges \$40 a month, plus \$8 per 1 GB of data. How much data needs to be used for both plans to cost the same?</p>	<p>4. Rita’s Rec Center costs \$150 to sign up and \$15 a month. Eli’s Exercise charges \$130 to sign up plus \$18 a month. How many months must you be a member to justify joining Rita’s Rec Center?</p>
<p>5. Alltold Cell Phones charges \$50 a month for a cell phone plan, plus \$10 per 1 GB of data. Verizand Cell Phones charges \$72 a month but does not charge for data. How much data can be use for Verizand to be a better choice?</p>	<p>6. A house on City St. cost \$450 a month, plus a \$900 deposit. A house on Town Ave. costs \$600 a month with no deposit. How many months do you need to live in City St. for it to be the cheaper option?</p>

7. A bicycle store costs \$2400 per month to operate. The store pays an average of \$60 per bike. The average selling price of a bike is \$120. How many bicycles must the store sell each month to break even?

8. Producing a musical costs \$88,000 plus \$5,900 per performance. One sold-out performance earns \$7,500. How many sold-out performances are needed to break even?

9. Every time a plumber makes a house call he gets paid a flat fee of \$50 plus \$40 per hour. Every hour he works he uses approximately \$80 worth of materials. How many hours must he work to break even?

10. The new Ford Focus with the normal engine costs \$11000 to purchase and 22 cents per mile to drive. The same care with a fuel-injection engine costs \$11300 to purchase, but only 20 cents per mile to drive. How many miles must be driven for the owner to break even?