

Name _____

WORD PROBLEMS--RATES #2

Directions: Find the rate in each problem below. There are several ways to solve *rate problems*. The simplest strategy is to simply divide the data. The key is to divide the data in the correct order. If the question asks you to find the *miles/hour*, then you should find the quotient of the miles divided by the hours, *not* the hours divided by the miles.

- 1) Steve's car lost $\frac{1}{16}$ qts. of oil every $\frac{1}{8}$ of an hour. How much oil was lost per hour? 1) _____
- 2) Liz planted $\frac{1}{4}$ lbs. of seed on every $\frac{1}{20}$ acres of her farm. How many pounds of seed did she plant per acre? 2) _____
- 3) It snowed $\frac{2}{3}$ of an inch every $\frac{1}{6}$ of an hour. What was the rate in inches/hour? 3) _____
- 4) Jackie grew $\frac{1}{12}$ of a foot in $\frac{1}{6}$ of a year. What is her growth rate in feet/year? 4) _____
- 5) The temperature dropped a $\frac{1}{2}$ degree every $\frac{1}{12}$ of an hour. How much did it drop per hour? 5) _____
- 6) Lucy's candle burned $\frac{2}{10}$ inches of wax every $\frac{1}{2}$ hour. How much wax did it burn per hour? 6) _____
- 7) Jalen filled his tub with $\frac{1}{2}$ a gallon of water every $\frac{3}{4}$ of a minute. How many gallons of water was he using every minute? 7) _____
- 8) Ashley drove 15 miles in $\frac{1}{4}$ of an hour. What was her speed in miles per hour? 8) _____
- 9) Jack made $\frac{4}{5}$ of a dollar every $\frac{1}{10}$ of an hour. How much did he make per hour? 9) _____
- 10) Hilary's plane climbed $\frac{8}{12}$ feet in $\frac{1}{6}$ seconds. How much did the plane climb per second? 10) _____
- 11) It took John $\frac{1}{2}$ of a minute to drive 6 laps. How many laps per minute did he drive? 11) _____
- 12) Sally harvested $\frac{4}{6}$ lbs. of corn in $\frac{2}{3}$ minutes. How much corn did she harvest per minute? 12) _____
- 13) It took Eric $\frac{1}{5}$ of an hour to walk $\frac{4}{5}$ of a mile? What is his speed in miles/hour? 13) _____