

## **Direct Variation Word Problem Worksheet**

Name: \_\_\_\_\_ Date: \_\_\_\_\_

For each problem below, answer the question that is asked, then state the constant of variation for each problem and write an equation in  $y = kx$  form to represent the problem.

- $y$  varies directly as  $x$ . If  $x = 2$  when  $y = 32$ , find  $x$  when  $y = 80$ .
- Madhu's monthly pay is directly proportional to the number of hours she works in the month. Her pay is \$1875 for 15 hours of work. Find the amount of pay for 40 hours of work.
- Electricity cost of a house increases from \$2000 every year. If the cost of electricity in a house is \$7500, how many years has it been running? (If the cost of electricity increases by \$1000 every year, how many years has it been running?)