

Direct Variation Word Problem Worksheet

Name: _____ Date: _____

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

1. y varies directly as x . If $x = 9$ when $y = 12$ find x when $y = 36$.

2. Heather's monthly pay is directly proportional to the number of hours she works in the month. Her pay is \$1610 for 35 hours of work. What is the amount of pay for 40 hours of work.

3. Electricity cost in a household varies directly with the number of kilowatt hours used. One month the electricity cost was \$120 for 1600 kilowatt hours. One month the electricity cost was \$240 for 3200 kilowatt hours. Describe the energy use the lighting?