# Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_

**Translating Equations HW**

**Instructions: Identify the variable. Translate each phrase or sentence into an expression or equation.**

1. The sum of a number and 7 is 11.
2. eight less than a number
3. The product of a number and 4 increased by 2 is 14.

**Instructions: Identify and label two variables and then write an equation that can be used to solve.**

1. Dan bought a canvas and some tubes of paint that were $3 each. The canvas cost $6.95. If Dan buys *p* tubes of paint, write an equation that you could use to find *T*, the total cost of his purchase.
2. The width of a rectangle is 12 less than 5 times the height. If the height of the rectangle is *h* inches, write an equation that you could use to find *w*, the width of the rectangle.
3. A bicycle courier (delivery person) charges a one-time fee of $20 dollars plus $10 for every mile. Write an equation to represent the amount, *C*, that the courier would make for a delivery that is *m* miles.
4. Ashley mows lawns to earn money. She buys a new mower for $200 and charges $30 per lawn. If she mows *n* lawns, write an equation that you could use to find *p*, Ashley’s profit?
5. Carlos sells video games on a web site. The cost for his website is $75 per year. Carlos sells each video game for $25. Write an equation that you could determine *p*, the amount of profit per year, and *g* the number of video games sold?

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