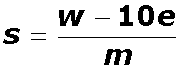
**Literal Equations Review Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

A literal equation is an equation that contains multiple variables.

* The goal of a literal equation is to isolate a particular variable (not always x)!

|  |  |  |
| --- | --- | --- |
| 1. Solve for a. | 2. Solve for w. | 3. Solve for b. |
| 4. Solve for x.  (combine like terms first) | 5. Solve for w. | 6. Solve for t. |

7. The formula for a person’s typing speed is  *,where s* is speed in words per minute, *w* is number of words typed, *e* is number of errors, and *m* is number of minutes typing.

a. Solve for *e.*

b. **Using your formula from part a**, find the number of errors when you type 500 words for 10 minutes at a speed of 40 words per minute.

8. The formula can be used to determine the interest that is earned on a principal amount of money , when the money is invested at an annual percentage rate for years.

a. Solve the formula for .

b. If a couple invests $5000 in an account that earns a 3% interest rate, how long will they need to invest it to earn $1200 in interest? (Hint: Convert the interest rate to a decimal.)

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9. Solve for *a*