1. **In a study of the relationship between the rate of a person's speech (S) in words per second and his/her memory span (M) in the average number of words recalled from a list, psychologists found the following data.**

S	M
2	2.3
4	5.3
6	8.3

    a. **Assume the relationship between memory span and rate of speech is linear, write an equation that may be used to predict one's memory span given his/her rate of speech.**

    b. **What memory span (M) would you predict for a person who speaks at 5 words per second?**

    c. **If you were interested in the rate of speech as predicted by the memory span, what equation would calculate S when given M?**

2. **Skill Builders**

    a. **Solve for t: $s = 5t + 11$**

    b. **Solve for x: $y = 0.9x - 15$**

    c. **Simplify: $5(-3 + 2x) - 2(3x - 5)$**

    d. **Simplify: $3(2x + 4y) + 5(x - y)$**

    e. **Simplify: $\dfrac{-2x}{3} + \dfrac{x}{2} - \dfrac{(2x - 4)}{6}$**

    f. **Solve for W: $3Z + 9W = 4(Z - W)$**