1. Solve the following equations:

(a) \( 2x + 3 = 5 \)  
(b) \( \frac{x}{3} + 2 = 0 \)

(c) \( -5(x + 1) - 2 = 8 \)  
(d) \( 7 = \frac{3x}{2} + 1 \)

(e) \( \frac{3 + 2x}{4} + 5 = 6 \)  
(f) \( \frac{5 - x}{2} = 1 \)
2. Solve the following equations:

(a) \[ 5 - x = 2 \]

(b) \[ x - 0.3x - 14 = 0 \]

(c) \[ 0.8x - 2 = 0.7x - 5 \]

(d) \[ -5(x + 1) = 4x + 4 \]

(e) \[ 3(3x + 2) - 4(2 - x) = 11 \]

(f) \[ 2(1 - x) - 5(2x - 3) = 5 \]
3. Thomas bought a magazine and 4 erasers. The total cost of all the items was $13. If the magazine was $5, how much did one eraser cost?

(a) Write the equation that describes this situation.

(b) Solve the equation.

4. Karen had no money at the beginning of the week. Then, she received her weekly allowance from her parents. She spent half of her weekly allowance playing mini-golf. To make more money, her parents let her wash the car for $4. At the end of the week, she had $12. What is her weekly allowance?

(a) Write the equation that describes this situation.

(b) Solve the equation.
5. A basket contains apples, oranges and bananas. There are twice as many oranges as bananas, and there are three fewer apples than bananas. If the basket contains 25 pieces of fruit, how many apples are in the basket?

6. Suppose that 12% of the students at a university are Engineering majors. If 9,570 students at the university are not Engineering majors, how many students are enrolled at the university?
7. Evaluate:

(a) \( \frac{1}{7} + \frac{3}{7} \)  
(b) \( \frac{1}{2} + \frac{1}{4} \)

(c) \( 1 - \frac{1}{2} \)  
(d) \( \frac{3}{2} - \frac{1}{2} \)

(e) \( 1 - \frac{1}{4} \)  
(f) \( \frac{1}{8} + \frac{1}{4} \)
8. Evaluate:

(a) \( \frac{1}{3} + \frac{2}{5} \)  

(b) \( \frac{1}{2} + \frac{1}{3} \)

(c) \( \frac{2}{5} \cdot \frac{10}{3} \)  

(d) \( \frac{1}{3} \div \frac{2}{5} \)

(e) \( \frac{2/5}{3} \)  

(f) \( \frac{5}{3/7} \)
9. Evaluate:

\[
\frac{7}{3 + \frac{1}{4}}
\]

10. Evaluate:

\[
\frac{\frac{1}{2} + \frac{1}{4}}{3}
\]