

## Linear Equations in One Unknown

Solve the following equations.

1. (a)  $2m - \frac{1}{5} = m + \frac{1}{20}$

(b)  $\frac{4}{7} - \frac{y}{2} = 1$

2. (a)  $7m + 6 = 3m - 2$

(b)  $28 - 3n = 5n + 4$

3. (a)  $5(3h - 8) + 2 = 7$

(b)  $3(7 - 2k) + 4 = -11$

4. (a)  $6(5x - 2) + 12 = 60$

(b)  $12 - (7 - 4x) = 25$

5. (a)  $\frac{3n - 2}{5} = \frac{1}{2}$

(b)  $\frac{5}{3} + \frac{v}{6} = 3$

6. (a)  $\frac{k}{4} + 6 = k$

(b)  $\frac{3}{8}f + 3 = \frac{7}{8}f - 5$

7. (a)  $\frac{x}{5} = -x + 6$

(b)  $5 + \frac{2}{3}y = -y$

8. Given that 3 audio tapes and 2 video tapes together cost \$360. If the cost of the video tapes is 3 times that of the audio tapes. Find the cost of each type of tapes.

9. If the sum of two consecutive odd numbers is 32. Find the greater number.

10. Abby and Tim together have \$1200. If Abby gives \$150 to Tim, then they will have the same amount. How much does Tim have originally?
  
11. Charles's father is now 41 years old. 5 years ago, he was 4 times as old as Charles. Find the present age of Charles.
  
12. Karen and Zoe buy a present of \$288 to their father and they share the payment. Karen's share is \$18 more than half the share of Zoe. Find Zoe's share.