

**Solving Equations** Assignment

Solve the following equations.

1)  $2(2x + 10) = 40$

2)  $-5(2x + 5) + 5 = 15$

3)  $2(8 + 7) = 5(3x)$

4)  $\frac{2(7x - 14)}{7} = 7$

5)  $-(n - 5) + 3(n + 2) = 4(n - 3) - 1$

6)  $\frac{3}{6}y - \frac{1}{6} = \frac{2}{6}$

7)  $2 - \frac{x}{4} = \frac{x}{4} + 1$

8)  $\frac{3 + x}{2} = \frac{x + 1}{3}$

**Solving Equations** Assignment**Solve the following problems:**

- 1) When you got your car fixed, the cost for parts was \$75. The cost for labor was \$45 per hour. If the total cost was \$255. Find the number of hours.
  
- 2) The length of a rectangle is twice its breadth. If the perimeter is 72 meter, find the length and breadth of the rectangle.
  
- 3) Robert's father is 4 times as old as Robert. After 5 years, father will be three times as old as Robert. Find their present ages.
  
- 4) The three angles in a triangle are in the ratio of 2:3:4. Find the measure of each angle.

**Solve the following equations for the given variable:**

1)  $V = x \times y \times z$ , for  $x$ .

2)  $a = \frac{b+c}{3}$ , for  $c$ .

3)  $E = m \cdot c^2$ , for  $c$ .

4)  $V = \pi \cdot r^2 \cdot h$ , for  $r$ .