Solving Equations with Multiple Variables Worksheet

Like Solving Equations with One Variable, But More Fun

1. $4x - 8y = 16$. Find y when $x = 2$.

2. $5z + 3y = 25$. Find z when $y = 4$.

3. $z^2 + \sqrt{x} + 36 = 0$. Find z when $x = 9$.

4. $x^2 + 2y = 40$. Find x when $y = 5$.

5. $z^2 + 4(z + 2) - 6 = 8z$. Solve for z^2.

6. $3(p + lw) = 2(l + pl + w)$. Solve for l.

7. $x(x^2 + 2) = 11$. Solve for x^3.

8. $h(b_1 + b_2) = 2A$. Solve for b_1.

9. $\sqrt{u^2 + v^2} = 2uv$. Solve for v^2.

10. The width of a rectangle is twice the length. If its area is 32 cm^2, find the length.