Solving Equations with Multiplication and Division Worksheet Answer Key

The "Times" They Are A-Changin'

Solve the following equations.

1. $\frac{n}{-5} = \frac{-3}{8}$

   $n = \frac{15}{8} = 1\frac{7}{8}$

2. $-\frac{x}{5} = \frac{9}{10}$

   $x = -\frac{9}{2}$

3. $\frac{4}{9}A = 4.67(2-2)$

   $A = 0$

4. $\frac{1}{3}a - 1 = |-10|$

   $z = 33$

5. $\left(6 - \frac{3}{12}(24)\right)z = 3\left(5 - \frac{1}{2}\right)$

   No solution

6. $3(2t - 3) + 7t = 4$

   $t = 1$

7. $5[x - 3 - 4(3 - x)] = 4(1 + 6x) + x$

   No solution

8. $\frac{1}{2z} = 4$

   $z = \frac{1}{8}$

9. $9x + 5 = 7 - 6x$

   $x = \frac{2}{15}$

10. $0.2l + \left(1 - \frac{4}{5}\right)l = 4$

    $l = 10$