Pre-Algebra

Name Key ID: 1

Date Core

Two-Step Equations

Solve each equation.

1) $\frac{2+p}{2} = 7$

$2 \cdot \frac{2+p}{2} = 7 \cdot 2$

$2+p = 14$

$2+p-2 = 14-2$

$\boxed{p = 12}$

2) $-8x + 4 = -44$

$-8x+4 = -44$

$-8x+4-4 = -44-4$

$\frac{-8x}{-8} = \frac{-48}{-8}$

$\boxed{x = 6}$

3) $-2b + 8 = -12$

$-2b+8 = -12$

$-2b+8-8 = -12-8$

$\frac{-2b}{-2} = \frac{-20}{-2}$

$\boxed{b = 10}$

4) $\frac{k-3}{9} = -1$

$9 \cdot \frac{k-3}{9} = -1 \cdot 9$

$k-3 = -9$

$k-3+3 = -9+3$

$\boxed{k = -6}$

5) $-1 + 4n = 59$

$-1+4n = 59$

$-1+4n+1 = 59+1$

$\frac{4n}{4} = \frac{60}{4}$

$\boxed{n = 15}$

6) $\frac{x+3}{7} = 2$

$7 \cdot \frac{x+3}{7} = 2 \cdot 7$

$x+3 = 14$

$x+3-3 = 14-3$

$\boxed{x = 11}$

7) $\frac{x}{4} + 3 = -2$

$\frac{x}{4}+3 = -2$

$\frac{x}{4}+3-3 = -2-3$

$4 \cdot \frac{x}{4} = -5 \cdot 4$

$\boxed{x = -20}$

8) $\frac{x-6}{2} = -2$

$2 \cdot \frac{x-6}{2} = -2 \cdot 2$

$x-6 = -4$

$x-6+6 = -4+6$

$\boxed{x = 2}$

9) $\frac{9+p}{8} = 2$

$8 \cdot \frac{9+p}{8} = 2 \cdot 8$

$9+p = 16$

$9+p-9 = 16-9$

$\boxed{p = 7}$

10) $-2 + \frac{x}{3} = -4$

$-2+\frac{x}{3} = -4$

$-2+\frac{x}{3}+2 = -4+2$

$3 \cdot \frac{x}{3} = -2 \cdot 3$

$\boxed{x = -6}$

11) $\frac{r}{10} + 3 = 4$

$\frac{r}{10}+3 = 4$

$\frac{r}{10}+3-3 = 4-3$

$10 \cdot \frac{r}{10} = 1 \cdot 10$

$\boxed{r = 10}$

12) $5 + \frac{p}{12} = 4$

$5+\frac{p}{12} = 4$

$5+\frac{p}{12}-5 = 4-5$

$12 \cdot \frac{p}{12} = -1 \cdot 12$

$\boxed{p = -12}$