

Solving Equation Review

Date _____

Solve each equation.

1) $-128 = 4(6n + 4)$

 $\{-6\}$

2) $-7(-8k - 1) = -441$

 $\{-8\}$

3) $7(8 - 2x) = 168$

 $\{-8\}$

4) $-141 = -3(7x + 5)$

 $\{6\}$

5) $-5(8 - 4b) + b = 107$

 $\{7\}$

6) $4(8 + 4a) = 96$

 $\{4\}$

7) $-208 = -13r$

 $\{16\}$

8) $-30 = -6n$

 $\{5\}$

9) $\frac{n}{10} = -8$

 $\{-80\}$

10) $x - 15 = -34$

 $\{-19\}$

11) $3 = a - 11$

 $\{14\}$

12) $272 = 17r$

 $\{16\}$ **Solve each proportion.**

13) $\frac{2}{6} = \frac{3}{x}$

 $\{9\}$

14) $\frac{p}{8} = \frac{5}{4}$

 $\{10\}$

$$15) \frac{6}{n+8} = \frac{2}{7}$$

$\{13\}$

$$16) \frac{2}{3} = \frac{x-10}{9}$$

$\{16\}$

$$17) \frac{10}{5} = \frac{k}{k+3}$$

$\{-6\}$

$$18) \frac{m-6}{m} = \frac{10}{4}$$

$\{-4\}$

$$19) \frac{8}{6} = \frac{n+2}{n-2}$$

$\{14\}$

$$20) \frac{4}{6} = \frac{m-7}{m+9}$$

$\{39\}$

Solve each equation by factoring.

$$21) p^2 + 6p - 7 = 0$$

$\{1, -7\}$

$$22) x^2 - 4x + 4 = 0$$

$\{2\}$

$$23) m^2 + 7m = 0$$

$\{-7, 0\}$

$$24) x^2 + 5x - 6 = 0$$

$\{1, -6\}$

$$25) 3r^2 + 29r + 40 = 0$$

$\left\{-\frac{5}{3}, -8\right\}$

$$26) 7b^2 - 13b - 24 = 0$$

$\left\{-\frac{8}{7}, 3\right\}$

$$27) 2n^2 + 3n - 20 = 0$$

$\left\{\frac{5}{2}, -4\right\}$

$$28) 5x^2 + 4x = 0$$

$\left\{-\frac{4}{5}, 0\right\}$