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SOLVING EQUATIONS April 2nd Due April 4th

SOLVE EACH EQUATION FOR THE VARIABLE

1) $x - 8 = 12$

$x = 12 + 8$
 $x = 20$

2) $20 + p = -5$

$p = -5 - 20$
 $p = -25$

3) $16 = 4 + x$

$x + 4 = 16$
 $x = 16 - 4$
 $x = 12$

4) $16 = m - 13$

$m - 13 = 16$
 $m = 16 + 13$
 $m = 29$

8

5) $2m = 8$

$\frac{2m}{2} = \frac{8}{2}$
 $m = 4$

6) $6p = -12$

$\frac{6p}{6} = \frac{-12}{6}$
 $p = -2$

7) $\frac{x}{3} = 8$

$3 \times \frac{x}{3} = 8 \times 3$
 $x = 24$

$\frac{b}{5} = -6$

$5 \times \frac{b}{5} = -6 \times 5$
 $b = -30$

8

10) $2x + 1 = 9$

$2x = 9 - 1$
 $\frac{2x}{2} = \frac{8}{2}$
 $x = 4$

11) $4a - 1 = 9$

$4a = 9 + 1$
 $\frac{4a}{4} = \frac{10}{4}$
 $a = 2.5$
 $a = \frac{5}{2}$

12) $\frac{x}{5} - 3 = 7$

$\frac{x}{5} = 7 + 3$
 $5 \times \frac{x}{5} = 10 \times 5$
 $x = 50$

$8 = \frac{d}{5} - 1$

$1 + 8 = \frac{d}{5}$
 $5 \times 9 = \frac{d}{5} \times 5$
 $45 = d$

8

14) $2.5x + 6 = 8$

$2.5x = 8 - 6$
 $\frac{2.5x}{2.5} = \frac{2}{2.5}$
 $x = 0.8$

$\frac{5}{2}x = 8 - 6$

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

15) $3.5 = 2 + 1.5p$

$2 + 1.5p = 3.5$
 $1.5p = 3.5 - 2$
 $\frac{1.5p}{1.5} = \frac{1.5}{1.5}$
 $p = 1$

16) $16 = 7.3 + 2.4k$

$7.3 + 2.4k = 16$
 $2.4k = 16 - 7.3$
 $\frac{2.4k}{2.4} = \frac{8.7}{2.4}$
 $k = 3.6$

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