

CLASS NOTES WEDS 10-10-12 Algebra 1

CK

Multiplication

(46)

$$\frac{r}{7} = \frac{r+4}{10}$$

$$7(r+4) = 10r$$

$$\begin{array}{r} + \cancel{7}r + 28 = 10r \\ - 7r \quad \quad - 7r \\ \hline \end{array}$$

$$\frac{28}{3} = \frac{3r}{3}$$

$$r = \frac{28}{3}$$

$$\frac{(\frac{28}{3})}{7} \stackrel{?}{=} \frac{(\frac{28}{3}) + 4}{10}$$

$$\frac{\frac{28}{3} \cdot \frac{1}{7}}{1} \stackrel{?}{=} \frac{\frac{28}{3} + \frac{12}{3}}{10}$$

$$\frac{4}{3} \stackrel{?}{=} \frac{40}{30}$$

$$\frac{4}{3} \stackrel{?}{=} \frac{40}{30}$$

By Jacob
"The Boss"
Cherry ✓

$$\begin{aligned}
 (48) \quad & \frac{3}{2} = \frac{(m-7)}{m} \\
 & 3m = 2(m-7) \\
 & 3\downarrow m = 2\downarrow m - 14 \\
 & -2m = -2m \\
 & \boxed{m = -14}
 \end{aligned}$$

CK

$$\frac{3}{2} \stackrel{?}{=} \frac{(-14) - 7}{(-14)}$$

$$\frac{3}{2} = \frac{-21}{-14}$$

$$\frac{3}{2} = \frac{3}{2} \quad \checkmark$$

$$\textcircled{50} \quad \frac{3}{x+1} \neq \frac{2}{x+6}$$

$$3(x+6) = 2(x+1)$$

$$\begin{array}{r} 3x + 18 = 2x + 2 \\ -2x \quad -2x \end{array}$$

$$\begin{array}{r} x + 18 = 2 \\ -18 \quad -18 \end{array}$$

$$\boxed{x = -16}$$

$$\frac{\cancel{3}}{(-16)+1} \stackrel{?}{=} \frac{2}{(-16)+6}$$

$$\frac{3}{-15} \stackrel{?}{=} \frac{2}{-10}$$

$$-\frac{1}{5} \stackrel{?}{=} -\frac{1}{5} \checkmark$$

BY Kayla
O'Pray

$$\textcircled{55} \quad 6(2x-3) - 5 = 25$$

+5 +5

$$\frac{6(2x-3)}{6} = \frac{30}{6}$$

$$\textcircled{+} \quad |2x-3| = 5$$

$$2x-3 = 5$$

+3 +3

$$\frac{2x}{2} = \frac{8}{2}$$

$$\boxed{x=4}$$

$$\textcircled{-} \quad (2x-3) = 5$$

$$-2x+3 = 5$$

-3 -3

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

$$\boxed{x=-1}$$

CF

$$6|2(4)-3|-5 \stackrel{?}{=} 25$$

$$6|8-3|-5 \stackrel{?}{=} 25$$

$$6|5|-5 \stackrel{?}{=} 25$$

$$6 \cdot 5 - 5 \stackrel{?}{=} 25$$

$$30 - 5 \stackrel{?}{=} 25 \checkmark$$

CF

$$6|2(-1)-3|-5 \stackrel{?}{=} 25$$

$$6|-2-3|-5 \stackrel{?}{=} 25$$

$$6|-5|-5 \stackrel{?}{=} 25$$

$$6 \cdot 5 - 5 = 25$$

$$30 - 5 = 25 \checkmark$$

$$\boxed{x = \{-1, 4\}}$$