

Solving Equations using Division ^{7/11} Application

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Nov. 11

19.
$$\frac{-6t}{-6} = \frac{-24}{-6}$$
$$t = 4$$

21.
$$\frac{2x}{2} = \frac{24}{2}$$
$$x = 12$$

24.

$$2x = 2$$

$$\frac{2x}{2} = \frac{4}{1}$$

$$x = 4$$

L.S.

$$\begin{array}{r} 2x \\ 2 \\ 4 \\ 2 \\ 2 \end{array}$$

R.S.

$$\begin{array}{r} 2x \\ 2 \\ 4 \\ 2 \\ 2 \end{array}$$

$$27. \begin{array}{c} 3 \\ \hline 1 \end{array} - \begin{array}{c} 4 \\ \hline 1 \end{array} = \begin{array}{c} p \\ \hline 3 \end{array}$$

$$\frac{-12}{1} = \frac{3p}{3}$$

$$p = -12$$

31.

$$\begin{array}{c} 12 \\ \hline 1 \end{array} - \begin{array}{c} 2 \\ \hline 1 \end{array} =$$

$$\begin{array}{c} 24 \\ \hline 1 \end{array} =$$

$$-24 =$$

$$\begin{array}{c} 12 \\ \hline 1 \end{array} - \begin{array}{c} 12 \\ \hline 1 \end{array} =$$

353 Multi-Step Equations

4.

$$2y + 5 = 9 + 5$$

$$\frac{2y}{2} = \frac{14}{2}$$

$$y = 7$$

$$8. \quad 4y - 9y = 35$$

$$-5y = 35$$

$$-5$$

$$-5$$

$$y = -7$$

12. $3t + 7t = -30$

$$\frac{10t}{10} = \frac{-30}{10}$$

$$t = -3$$

R.S.

$$= -30$$

L.S.

$$3t + 7t$$

$$3(-3) + 7(-3)$$

$$-9 - 21$$

$$-30$$

19. Solve and Check

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

$$\frac{x}{3} = \frac{6}{1}$$

$$3 \frac{x}{3} = \frac{18}{1}$$

$$x = 18$$

L.S.

$$\frac{x}{3} = \frac{18}{3}$$

6

R.S.

$$4 + 2$$

6



$$26. \quad \frac{y}{2} + \frac{1}{4} = \frac{\frac{1}{3}}{4} - 1$$

$$\frac{2}{1} \left(\frac{y}{2} + \frac{1}{4} \right) = \frac{2}{1} \left(\frac{\frac{1}{3}}{4} - 1 \right)$$



$$\frac{2y}{2} = \frac{4}{4} \quad \begin{array}{c|c} L S & R S \\ \hline y & \frac{1}{3} - 1 \end{array}$$

$$y = 1$$

$$= \frac{2}{1} + \frac{1}{4} = \frac{3}{4}$$

$$28) \quad 2y - 5y - 5 = 13$$

$$-3y - 5 \overset{+5}{=} 13 \overset{+5}{}$$

$$\frac{-3y}{-3} = \frac{18}{-3}$$

$$y = -6$$

L	R
$2y - 5y + 5$ $2(-6) - 5(-6) + 5$ $-12 + 30 + 5$ $18 + 5$ 23	13

✓

$$33) 4 + 3t = -6 - 2$$

$$\overset{-4}{4} + 3t = -8 \quad \overset{-4}{-4}$$

$$\frac{3t}{3} = \frac{-12}{3}$$

$$t = -4$$

L.S	R.S
$4 + 3t$	$-6 - 2$
$4 + 3(-4)$	-8
$4 - 12$	
-8	

✓

HW:

① pg 348: 349 - all

② pg. 353 - up to # 34

③ Handout

④ Quiz next week