

p. 361

Solving Equations with Fractions + Decimals

Nov. 14

1. $x + 0.2 = 0.8 - 0.2$

$$x = 0.6$$

3. $s + 1.2 = 1.5 - 1.2$
 $s = 0.3$

19.

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

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

$$x = 2$$

22.

$$\frac{6}{1} \left(\frac{m}{6} = -\frac{1}{3} \right) \frac{6}{1}$$

$$\frac{6m}{6} = -\frac{6}{3}$$

$$m = -2$$

25.

$$\frac{y \times 3}{2 \times 3} = \frac{y \times 2}{3 \times 2} - \frac{1 \times 6}{1 \times 6}$$

$$3y = 2y - 6$$

$$y = -6$$

	L.S.	R.S.
	$\frac{y}{2}$	$\frac{y}{3} - 1$
	$-\frac{6}{2}$	$-\frac{6}{3} - 1$
	2	$-2 - 1$
	-3	-3

27. $\frac{5n^3}{2 \times 3} = \frac{4n^2}{3 \times 2} - \frac{7}{6}$
 $-8n^2 - 8n$
 $15n = 8n - 7$
 $7n = -7$
 $n = -1$

LS. / RS

$\frac{5n}{2}$	$\frac{4n}{3} - \frac{7}{6}$
$\frac{5(-1)}{2}$	$\frac{4(-1)}{3} - \frac{7}{6}$
$-\frac{5}{2}$	$-\frac{4}{3} - \frac{7}{6}$
	$-\frac{8}{6} - \frac{7}{6}$
	$-\frac{15}{6} = -\frac{5}{2}$

→

29.

$$\frac{5A}{3 \times 5} + \frac{2 \times \sqrt{5}}{1 \times 5} = \frac{3A}{5 \times 3} + \frac{4 \times \sqrt{5}}{1 \times 5}$$

$-3n$ $-3n$

$$5n + 30 = 3n + 60$$

$$2n + 30 = 60 - 30$$

$$\frac{2n}{2} = \frac{30}{2}$$

$$n = 15$$

$$31. \quad \frac{4(3-y)}{5 \times 4} - \frac{5(-2-3y)}{4 \times 5}$$

$$12 - 4y = -10 - 15y$$

$$12 + 11y = -10$$

$$\frac{11y}{11} = \frac{-22}{11}$$

$$y = -2$$

35.

$$\frac{3(n+5)}{2 \times 3} - \frac{2n}{3 \times 2} = \frac{1 \times 6}{1 \times 6}$$

$$(3n) + 15 - (2n) = 6$$

$$n + 15 = 6 - 15$$

$$n = -9$$

LS.

$$\frac{n+5}{2} - \frac{n}{3}$$

$$-\frac{9+5}{2} = -\frac{9}{3}$$

$$-\frac{4}{2} + \frac{9}{3}$$

$$-2 + 3$$

RS

38.

$$\frac{1-x}{4} - \frac{7x^2}{2x^2} = \frac{7x^4}{x^4}$$

✓

$$(1-x) - 2x = 28$$

✓

$$1 - 3x = 28$$

$$\begin{array}{r} -3x = 27 \\ -3 \quad -3 \end{array}$$

$$x = -9$$

✓

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with
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