U4L4 Equations with Variables on both sides

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A) Review

1) $5x + 2 = 30$

$-2 \quad -2$

$\frac{5x}{5} = \frac{28}{5}$

$x = \frac{28}{5} = 5.6$ ✓

2) $4m + 2m = -18$

$\frac{6m}{6} = \frac{-18}{6}$

$m = -3$ ✓

Check: $4m + 2m \mid -18$

$4(-3) + 2(-3) \mid -18$

$(-12) + (-6) \mid -18$

$-18 \mid -18$ YES!

3) $4.2 + 0.5y = 8.1$

$-4.2 \quad -4.2$

$\frac{0.5y}{0.5} = \frac{3.9}{0.5}$

$y = 7.8$ ✓

Letters = Numbers

B) 1) $5x - 8x = 1x + 8$

$-1x \quad -1x$

$-3x = 1x + 8$

$\frac{-4x}{-4} = \frac{8}{-4}$

$x = -2$ ✓

Letters = Numbers

Note: move entire terms by Add/Sub whole term! $-1x$ both sides

2) $3y + 5y = 5y - 6$

$-5y \quad -5y$

$8y = 5y - 6$

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

$y = -2$ ✓

U4L4 WKST 4, 10, 11, 15, 17, 23, 26, 30, 35, 42 /10 = %