

8/20 Algebra - Downing  
Bellwork - Check HW

$$1) \frac{5x+7}{2} = 11 \quad (2)$$

$$\frac{5x+7}{2} = 11$$

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$$5x+7 = 22$$

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$$-7 \quad -7$$

$$\frac{5x}{5} = \frac{15}{5}$$

$$\boxed{x=3}$$

$$2) \frac{5x}{2} - 3 = 10$$

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$$+3 \quad +3$$

$$\frac{5x}{2} = 13 \quad (2)$$

$$\frac{5x}{5} = \frac{26}{5}$$

$$\boxed{x = \frac{26}{5}}$$

Go over story problems on HW

1.1 B - Simple Equations with Fractions

$$1) \frac{26}{3} = b + 3\frac{2}{3}$$

$$\frac{26}{3} = b + \frac{11}{3}$$

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$$-\frac{11}{3} \quad -\frac{11}{3}$$

$$\frac{15}{3} = b$$

$$\boxed{5 = b}$$

$$2) x + \frac{5}{2} = \frac{23}{10}$$

$$x + \frac{25}{10} = \frac{23}{10}$$

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$$-\frac{25}{10} \quad -\frac{25}{10}$$

$$x = \frac{-2}{10}$$

$$\boxed{x = -\frac{1}{5}}$$

$$3) \frac{4}{5} = \frac{5}{2}k \quad \left(\frac{2}{5}\right)$$

$$\boxed{\frac{4}{5} = k}$$

$$4) -2\frac{2}{3}x - 2 = \frac{-22}{9}$$

$$\frac{-8}{3}x - 2 = \frac{-22}{9}$$

$$-24x - 18 = -22$$

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$$+18 \quad +18$$

$$-24x = -4$$

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$$-24 \quad -24$$

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

$$5) \quad -\frac{5}{3} + \frac{1}{2}x = \frac{-52}{15}$$

$$\left(\frac{30}{1}\right) \left(-\frac{5}{3} + \frac{3}{2}x\right) = \frac{-52}{15} \left(\frac{30}{1}\right)^2$$

$$\begin{array}{r} -50 + 45x = -104 \\ +50 \qquad \qquad +50 \\ \hline \end{array}$$

$$\begin{array}{r} 45x = -54 \div 9 \\ \hline 45 \qquad \qquad 45 \div 9 \end{array}$$

$$\boxed{x = -\frac{6}{5}}$$

HW 1+2 step Equations w/ Fractions WS  
Evens Only