

Warm up:

Solve.

1) $3x + 11 = -5$

$$\begin{array}{r} -11 \quad -11 \\ \hline 3x = -16 \\ \hline \frac{3x}{3} = \frac{-16}{3} \end{array}$$

$$x = -5\frac{1}{3}$$

$$x = -5.\overline{333}$$

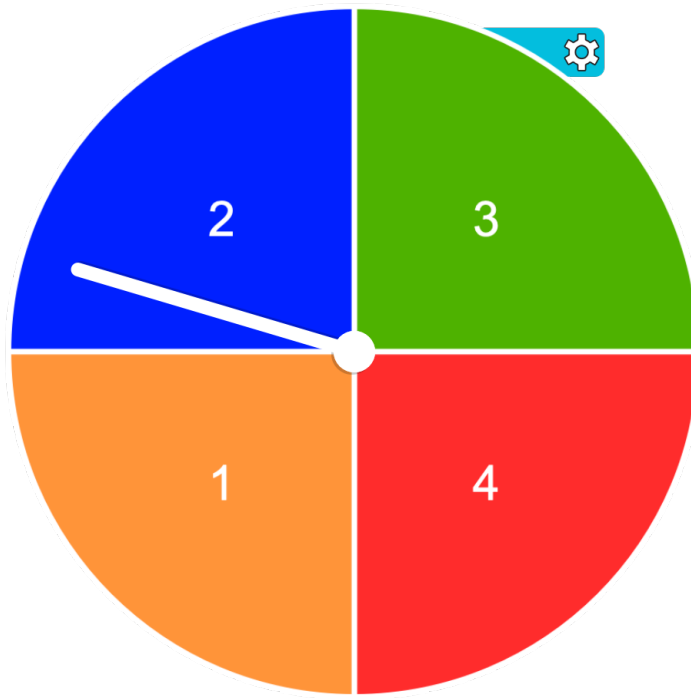
2) $2 - 8x = 5$

$$\begin{array}{r} -2 \quad -2 \\ \hline -8x = 3 \\ \hline \frac{-8x}{-8} = \frac{3}{-8} \end{array}$$

$$x = -0.375$$

$$x = -\frac{3}{8}$$

$$6x - 21$$
$$3(2x - 7)$$



$$\begin{array}{r} -6 - 3x = -7 \\ +6 \qquad +6 \\ \hline -3x = -1 \\ \hline -3 \qquad -3 \\ \hline x = \frac{1}{3} \\ 0.\overline{33} \end{array}$$

$$\begin{array}{r} 4.7 \\ 23 \overline{)108.1} \\ \underline{-92} \\ 161 \\ \underline{-141} \\ 0 \end{array}$$

$$2.3n - 8.1 = 2.71$$

$$+ 8.1 \quad + 8.10$$

$$\begin{array}{r} 2.3n = 10.81 \\ \underline{2.3} \quad \underline{2.3} \end{array}$$

$$n = 4.7$$

$$\begin{array}{r} 3 = -x + 9 \\ -9 \quad -9 \\ \hline -6 = -x \\ \hline -1 \quad -1 \\ \hline 6 = x \end{array}$$

$$8 = \frac{x}{4} + 12$$
$$\begin{array}{r} -12 \quad -12 \\ \hline 4(-4) = \left(\frac{x}{4}\right)4 \\ -16 = x \end{array}$$

$$\begin{array}{r}
 \frac{9}{36} \\
 - \frac{20}{36} \\
 \hline
 \end{array}
 \quad
 \frac{1}{4} = \frac{5}{9} - \frac{3}{4}n$$

$$\begin{array}{r}
 - \frac{5}{9} \\
 - \frac{5}{9} \\
 \hline
 \end{array}$$

$$-\frac{4}{3} \left(-\frac{11}{36} \right) = \left(-\frac{3}{4}n \right) \left(-\frac{4}{3} \right)$$

$$\frac{11}{27} = n$$

Factor.

$$36xy - 80x$$

Justin is having a party this weekend and went to the grocery store to buy food. He bought a cake for \$28 and some bags of chicken nuggets for \$8 each. He spent a total of \$116. Write and solve an equation to find how many bags of chicken nuggets he bought.

$$7.1p + 40.355 = 3.08$$

$$\frac{2}{5}a + \frac{1}{2} = -3\frac{1}{3}$$

Factor.

$$12ab + 6b - 42$$

Ali has \$4 less than twice as much money as Fred. If Ali has \$62, how much money does Fred have?

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

$$-8 = 4x - 5$$

$$31.44 = 9.6 + 5.6r$$

$$-4 + 7x = -1$$

$$0.6 - 2.4y = -15.48$$

