

WARM UP

1) Describe how to use the multiplicative inverse to solve and equation.

2) Susan swims a race in $29 \frac{3}{10}$ seconds. Patty swims the race in $33 \frac{9}{10}$ seconds. How much faster was Susan than Patty?

3) Solve: $2 + \frac{4}{9}k = 30$

4) Solve: $6 - 5(-1.25) = 10n$

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LEQ: Which inverse operation do you use to solve an equation?

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1. Distributive Property/
Combine Like Terms

$$-15 = 2(m - 3m) + 5$$

$$\rightarrow -15 = 2m - 6m + 5$$

2. Box the Variable

$$\rightarrow -15 = \boxed{-4m} + 5$$

$$\rightarrow \begin{array}{ccc} -5 & & -5 \\ \hline \end{array}$$

3. Perform the Inverse
Operation.

$$\rightarrow \frac{-20}{-4} = \frac{-4m}{-4}$$

$$\rightarrow 5 = m$$

4. Solve

$$\rightarrow 5 = m$$

We Do Together

$$2(6v-10) + 10 = -104$$

$$12v + 9(v - 2) = 24 \quad | \quad 13 + 8(2v - 4) = 29 \quad | \quad 12x - 4(x - 4) = 24$$

WARM UP

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1) Describe how to use the LCM to solve equations.

2) A pitcher contains $2\frac{3}{4}$ pints of orange juice. After you pour $\frac{5}{8}$ of a pint into a glass, how much is left in the pitcher?

What is the value of $-7 \div 8$ in decimal form?

Find the value of $8\left(-\frac{4}{5}\right) + 8$ (1.25)