Curriculum Outcomes:

PR1: Generalize a pattern arising from a problem-solving context using linear equations and verify by substitution.

PR3. Model and solve problems using linear equations of the form:

ax = b; = b, a \neq 0; ax + b = c; +b = c, a \neq 0; = b, $x \neq$ 0 ax ax xa ax + b = cx + d; a(bx + c) = d(ex + f); a(x + b) = c; ax = b + cx concretely, pictorially and symbolically, where a, b, c, d, e, and f are rational numbers

Student Friendly:

"Rearranging an equation with variables on both side of the equal sign"



a)
$$\frac{2x}{3} - \frac{7}{2} = 3$$

b)
$$-3(2x - 5) = -2$$

c)
$$5x = 3x - 12$$

Warm If you need to use the washroom or get a drink, go before class starts.

a)
$$\frac{2x}{3} - \frac{7}{2} = 3^{(6)}$$

$$\frac{4x}{3} - 2^{(6)} = 3^{(6)}$$

$$\frac{4x}{4} - 2^{(6)} = 3^{(6)}$$

$$\frac{4x}{4} = 3^{(6)}$$

Warm If you need to use the washroom or Up! get a drink, go before class starts.

b)
$$-3(2x-5)=-2$$

$$-6x+15=-2$$

$$-\frac{15}{-6}=-17$$

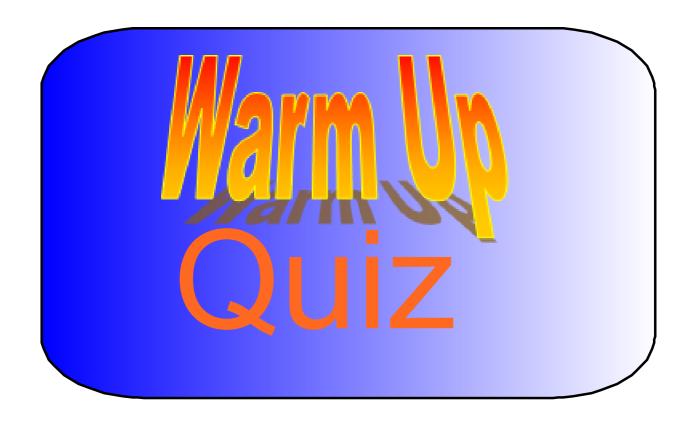
$$-\frac{17}{-6}=-17$$

$$-\frac{17}{-6}=-17$$

Warm If you need to use the washroom or Up! get a drink, go before class starts.

$$\frac{2x}{2} = -\frac{12}{2}$$

$$\chi = -b$$



last night's homework



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6

#8

#10

Any Questions??????



multiply by the lowes common multiple

$$\frac{5a}{4} = \frac{a}{6} + 2$$

$$\frac{15a}{15a} = \frac{2a}{13} + 24$$

$$\frac{13a}{13} = \frac{24}{13}$$

$$\frac{5}{r} = \frac{2}{5}$$

$$\frac{5}{7} + \frac{2}{7} = 6$$

Two restaurants charge different rates for catering a party.



Time Company A: \$30 plate plus an addition flat fee of \$300

Company B: \$55 a plate

Verify your work

When do the two companies charge the same amount???

$$300 = 25n$$

$$300 = 25n$$

$$25$$

$$12 = 0$$

$$300 = 25n$$

$$25$$

$$300 = 300$$

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Solve

$$9z-1-7z = 7-6z-15$$

$$2z-1-1 = -8 - 6z + 6z$$

$$8z - 1^{+1} = -8^{+1}$$

$$8z - 1^{+1} = -8^{+1}$$

$$8z - 1^{+1} = -8$$

Solve

$$4(y+8) = 7(y+2)$$

$$4(y+8) = 7(y+2)$$

$$4y+32 = 7+y+1+1$$

$$32 = 3y + 14^{-14}$$

$$18 = 3y$$

$$3 = 3$$

$$\frac{2}{3} \left(\frac{6x}{1} + \frac{9}{1} \right) = \frac{1}{2} \left(\frac{10x}{2} - \frac{1}{2} \right)$$

$$\frac{12x}{3} + \frac{18}{3} = \frac{10x}{2} - \frac{1}{2}$$

$$\frac{2}{3} \frac{(5x + 2)}{(5x + 2)} = \frac{1}{2} \frac{(7x - 3)}{(7x - 3)}$$

$$\frac{10x^{(b)}}{3} + \frac{4^{(b)}}{3} = \frac{3x}{2} - \frac{3}{2}^{(b)}$$

$$\frac{60x}{3} + \frac{24}{3} = \frac{42x}{2} - \frac{18}{2}$$

$$\frac{20x}{48} = \frac{21x}{2} - 9$$

$$8^{+9} = x - 9^{+9}$$

$$17 = x$$





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#11(b,d) #16 (ai) #17 19(abc) #21(abc) When you see fractions you must work with fractions