## **Curriculum Outcomes:**

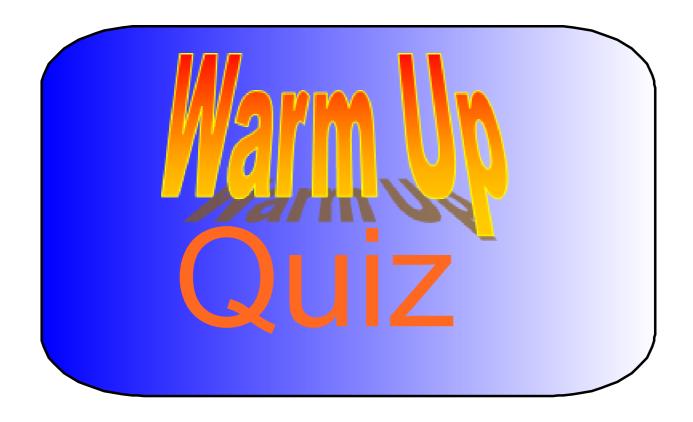
PR1: Generalize a pattern arising from a problem-solving context using linear equations and verify by substitution.

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"



## last night's homework



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# 6

#8

#10

Any Questions??????

multiply by the lowes common multiple



$$\frac{(12)}{5a} = \frac{a}{4} + 2$$

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

$$\frac{60a}{4} = \frac{12a}{4} + 24$$

$$\frac{15a}{4} = \frac{2a}{4} + 24$$

$$\frac{15a}{4} = \frac{24}{13}$$

$$\frac{13a}{4} = \frac{24}{13}$$

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

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

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

Two restaurants charge different rates for catering a party



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



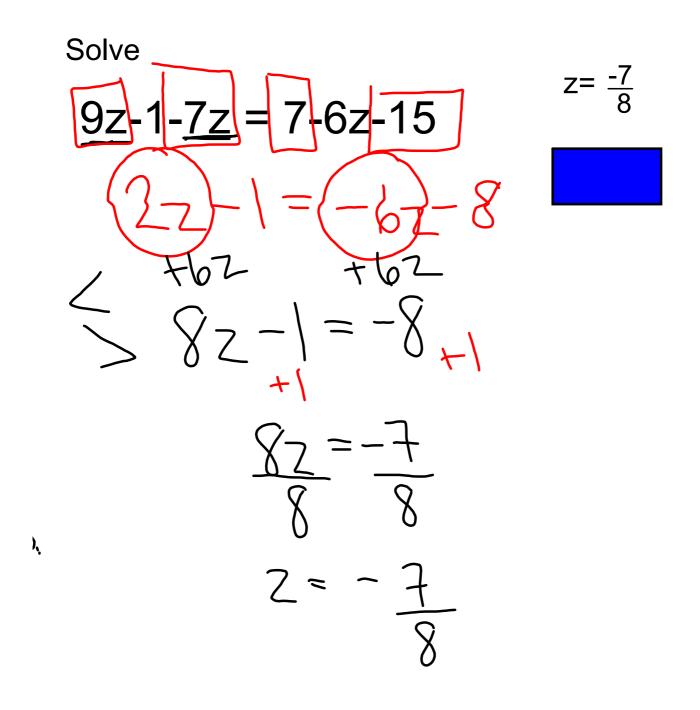
Company B: \$55 a plate

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

$$\frac{300}{25} = \frac{25X}{25}$$

$$12 = x$$

6



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

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$$32 = 74 - 44 + 14$$

$$32 = 74 - 44$$

$$18 = 34$$

$$6 = 4$$

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

$$\frac{2}{3} \times \frac{6x - 12x}{1 - 12x}$$

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

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

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

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

$$\frac{10x}{3} + \frac{1}{3} = \frac{7x}{2} - \frac{3}{2}$$

$$\frac{60x}{3} + \frac{24}{3} = \frac{17x}{2} - \frac{18}{2}$$

$$\frac{20x}{3} + 8 = \frac{21x}{2} - 9$$

$$8 = x - 9$$

$$17 = x$$

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

$$10x = \frac{1}{3}(5x + 2) = \frac{1}{2}(7x - 3)$$

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