Distributive Property Opener

The school band decided to raise money by holding a car wash. The band spent $32 to buy the needed supplies. They will charge $5 for each car that they wash.

Part A   Create a table showing the profit (total money earned minus expenses) that the band will make for washing 1 through 10 cars.

Cars	Profit

Part B   What will be the band's profit for washing 40 cars? Explain your reasoning.

Part C   At some point during the day, could the band ever have a profit of exactly $107? Explain your reasoning.

Sep 7-11:26 AM

Learning Target
I can use the distributive property to simplify expressions.

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Distributive Property

When there are parentheses in the expression, you must "DISTRIBUTE" whatever is on the outside of the parenthesis to EVERYTHING on the inside of the parenthesis using _____.

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Examples:

1. $5(x + 12)$ 2. $3(6 + 2y)$

3. $-4(3x + 8)$ 4. $7(2b - 3)$

5. $-4(6a - 4)$

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Now, put it all together and simplify these expressions...

6. $2(3x + 4) + 8x + 6$ 7. $-3(6 + 2x) + 12 - 3x$

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8. $4(x + 3) + 2x + 8$ 9. $3y + 8 + 4(6y + 3)$

10. $10(x - 5) + 5x - 6$ 11. $-8(2x + 5) + 12x$

12. $-3(x - 8) + 5x + 20$

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$$12(x + y) - 12y$$

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$$7y + 8(y + 3)$$

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$$4(3y + 6) + 2(5y - 6)$$

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$$-6(y + 1) + 3y - 5$$

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$$4x - 3(x + 4)$$

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$6(4 - 2x) + 3x$

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$-5(x + y) - 4y + 3x$

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$-10x - 5xy + 4x(2y + 5)$

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$6(3x - 4y) - 2(x + 3y)$

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Summary
Get you thinking...

$2(x + 4) = 2x + 8$....

___$(x + $___$) = 3x + 12$?????????

Nov 19-10:16 AM

May 31-9:19 AM