1) Which of the following can be modeled by $\mathrm{y}=2 \mathrm{x}+5$ ? CIRCLE ALL THAT APPLY!
A. There are initially 5 rabbits on a farm. Each month thereafter the number of rabbits is 2 times the number in the month before.
B. Joseph earns $\$ 2.00$ for each magazine sale. Each time he sells a magazine he gets a $\$ 5$ tip. How much money will he earn after selling x magazines?
C. Sandy charges $\$ 2.00$ an hour for babysitting. Parents are charged $\$ 5.00$ if they are home later than scheduled. Assuming the parents arrived late, how much money did she earn for x hours?
D. For a gym membership there is a $\$ 2.00$ initiation fee for joining the gym and a $\$ 5.00$ per class charge. How much would Ms. Martin owe for joining the gym and taking x classes?
E. Andy is saving money for a new CD player. He began saving with a $\$ 5.00$ gift and will continue to save $\$ 2.00$ each week. How much money will he have saved at the end of $x$ weeks?
2) A local restaurant will deliver food to your house if the purchase amount of your order is at least \$25. The total for part of your order is $\$ 18$. Write and solve an inequality to determine how much more you must spend for the restaurant to deliver your order.
3) $8 x-2=-9+7 x$
4) $a+5=-5 a+5$
5) $4 m-4=4 m$
6) $p-1=5 p+3 p-8$
7) $5 p-14=8 p+4$
8) $p-4=-9+p$
9) $167<6+7(2-7 r)$

10) $-8 x+2 x-16<-5 x+7 x$

11) $5(6+3 r)+7 \geq 127$


CHALLENGE:

## Solve for $x$.

$$
\frac{1}{5}(2 x-10)+4 x=-3\left(\frac{1}{5} x+4\right)
$$

