PER.
SOLVING EQUATIONS WITH VARIABLES ON BOTH SIDES - Day 1
Solve each equation, checking your solution on your calculator.

| 1. $4 n+5=6 n+7$ | $2 . \quad 7 x-4=0.5 x-x+35$ |  |
| :--- | :--- | :--- |
| 3. $71-5 x=9 x-13$ | 4. |  |


| 7. $6=3+5(y-2)$ | $8 . \quad 2(x-3)+5=3(x-1)$ |
| :--- | :--- |

9. Rapid Rental Car Company charges a $\$ 55$ rental fee and $\$ 0.25$ per mile driven. For the same car, Capital Cars charges $\$ 45$ for rental fee and $\$ 0.35$ per mile. Write an equation and find the number of miles for which the companies' charges will be the same.

Equation: $\qquad$
10. Roger is 5 feet tall and casts a shadow 3.5 feet long. At the same time a flagpole outside his school cast a shadow 14 feet long. How tall is the flag pole?

Equation: $\qquad$
11. Mia bought a dress for the homecoming dance. The total cost of the dress was $\$ 121.24$ which included an $8.25 \%$ tax. What was the price of the dress?

Equation: $\qquad$

Answers Bank: $2, \frac{7}{3}, 100,6,2.6, \frac{26}{5}, 3.6,112,6,-1,20$

