1. Solve the following equations.
(a) $4 x-17=35$
(b) $13 y+4=5(y-4)$
(c) $\frac{2}{3} x-\frac{1}{6}=-\frac{5}{12} x+\frac{3}{2}-\frac{1}{6} x$
(d) $\frac{2 y-4}{5}=\frac{5 y+13}{4}+\frac{y}{2}$
2. The sum of two consecutive odd integers is -148 . Find the two integers.
3. Wayne County has a sales tax rate of $7 \%$. How much does a used Honda Civic cost before tax, if the total cost of the car including tax is $\$ 13,888.60$ ?
4. The price of a textbook after a $35 \%$ markdown is $\$ 29.25$. What was the original price?
5. A salesperson earns $\$ 50$ a day plus a $12 \%$ commission on sales over $\$ 200$. If their earnings for the day are $\$ 76.88$, how much merchandise did they sell?
6. A volleyball court is twice as long as it is wide. If the perimeter is 177 ft , find the dimensions of the court.
7. A family builds a rectangular pen for their rabbits, such that the length of the pen is 7 ft less than twice the width. If the perimeter is 40 ft , what are the dimensions of the pen?
