EX 1 Studies indicate that full-time working women make only $80 \%$ of what working men make. If a female is making $\$ 60,000$, how much do you expect a male counterpart to make?

EX 2 Suppose it costs $\$ 75$ to rent a boat for the day plus $\$ 5$ per gallon of gas used. If your bill is $\$ 98$, how many gallons of gas did you use?

EX 3 One positive number is $1 / 4$ of another number. The difference between the two numbers is 48 . Find the two numbers.

EX 4 A rectangular window has a perimeter of 15 feet. The width of the window is half of the height.
(a) Draw a picture and label $w$ for the width and $h$ for the height.
(b) Write $w$ in terms of $h$ and write and equation for the perimeter in terms of $h$.
(c) Find the dimensions of the window.

EX 5 You drive your boat straight across a lake that is 4.5 miles long. If it takes you 10 minutes to cross the lake, how fast (in mph) were you going?

EX 6 You invest a total of $\$ 5000$ split between two accounts earning simple interest, one $2.5 \%$, the other at $3.0 \%$. During one year the two accounts earned a combined \$144 in interest. How much did you invest in each account?

