## Converting Units Between Different Systems

## Study Tip

Quick approximations:
$1 \mathrm{mi} \approx \frac{8}{5} \mathrm{~km}$
$F \approx 2 C+30$
$1 \mathrm{gal} \approx 4 \mathrm{~L}$
$1 \mathrm{lb} \approx \frac{2}{5} \mathrm{~kg}$


The speed limit is about 62 miles per hour.
b. $110 \mathrm{~km}=110 \mathrm{~km}\left(\frac{1 \mathrm{mi}}{1.61 \mathrm{~km}}\right) \approx 68 \mathrm{mi}$

Your "rule" indicates that you can drive up to 68 miles per hour without getting a speeding ticket.

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While in Canada, you stop at a gas station. You have heard that gas prices in Canada are considerably more expensive than in the United States.
c. From the sign at the left, does this seem to be true?
d. To answer part (c), what conversion should you consider in addition to the conversion between gallons and liters?

