4. Solve each equation.
a) $3 x+4=1$
b) $5+2 x=3$
c) $-3 x+4=7$
d) $2-5 x=17$
e) $7=3 x+13$
f) $-3 x-5=4$
g) $24=-3 x-6$
h) $-5+4 x=-21$
5. Choose 3 equations in question 4 . Check your solutions.
6. An equation for the perimeter of a parallelogram is $P=2 b+2 c$.
a) Determine $P$ when $b=5 \mathrm{~cm}$ and $c=7 \mathrm{~cm}$.
b) Determine $c$ when $P=36 \mathrm{~cm}$ and $b=8 \mathrm{~cm}$
c) Determine $b$ when $P=54 \mathrm{~cm}$ and $c=12 \mathrm{~cm}$.

7. Assessment Focus In Canada, temperature is measured in degrees Celsius, $C$. In the United States, temperature is measured in degrees Fahrenheit, $F$. The equation $9 C=5 F-160$ is used to convert between the two temperature scales.
a) What is $30^{\circ} \mathrm{C}$ in degrees Fahrenheit?
b) What is $14^{\circ} \mathrm{F}$ in degrees Celsius?

Explain your work.
8. An empty tanker truck has a mass of 14000 kg .

One barrel of oil has a mass of 180 kg .
The equation $M=14000+180 b$ represents the total mass of the truck, $M$ kilograms, when it contains $b$ barrels of oil.
The truck enters a weigh station that shows its total mass is 51080 kg . How many barrels of oil are on the truck? How do you know?

9. Take It Further In each figure:
a) Write an equation to relate the given measures.
b) Solve the equation.

ii)

iii)


## In Your Own Words

Choose one equation you solved in this section.
Explain how you solved it.
Show how to check the solution.

