5.11 - Temperature in Different Systems
page 148
Imperial Temperature - Fahrenheit ( ${ }^{\circ} \mathrm{F}$ )
-Gabriel Daniel Fahrenheit invented the mercury thermometer in 1714
Metric Temperature - Celsius ( ${ }^{\circ} \mathrm{C}$ )
-Anders Celsius created the Celsius temperature scale in 1742
Formulas for converting between Fahrenheit and Celsius

Fahrenheit to Celsius: $C=\frac{5}{9}(F-32)$

Celsius to Fahrenheit: $F=1.8 C+32$


## What do you notice? What do you wonder?



| What do you notice? | What do you wonder? |
| :--- | :--- |
| -There are no chocolate chips in | -Does the dial belong to the <br> stove? |
| the recipe! |  |
| -There are different |  |
| measurement units | -Why do you need the picture of <br> the stove? |
| -The dial is in degrees Celsius | -Whose recipe is this? <br> -The recipe says $375^{\circ}$ <br> Fahrenheit |
|  |  |

$$
F=1.8 C+32 \quad C=\frac{5}{9}(F-32)
$$

Example 1: page 148
Elise is training to become a chef. A recipe for tourtiere says to bake it at $190^{\circ} \mathrm{C}$. To what temperature should Elise set an oven with temperatures in degrees Fahrenheit?


Example 2: page 149
Owen, an assistant at a library, learned that the highest temperature in Calgary was $36.1^{\circ} \mathrm{C}$ on July 25 th, 1933. The lowest temperature was $-47.9^{\circ} \mathrm{F}$ on January 31st, 1893. What is the difference in degrees Celsius, to one decimal place?


## Practice Converting Temperature

Convert the following to degrees Celsius: Convert the following to degrees Fahrenheit:
a) $375^{\circ}$ Fahrenheit
a) $75^{\circ}$ Celsius
b) $204.8^{\circ}$ Fahrenheit
b) $154.6^{\circ}$ Celsius
c) $-146.3^{\circ}$ Fahrenheit
c) $-46.7^{\circ}$ Celsius

