

## Lesson 1.5: Conversions Between SI and Imperial

Complete the *Practice* below. When you have completed all the questions for *Lesson 1.5 Practice – VI* with your best work, mark your work by first comparing your answers to the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.



### Practice – VI

1. Why are there two conversion ratios listed for each pair of measurements listed in the conversion table in *Lesson 1.5*?

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2. Complete the following conversions.

a. 10 m to yd

b. 159 lbs to kg

c. 34 miles per hour to kilometres per hour

3. The diagram shows a thermometer with both Celsius and Fahrenheit scales.
- a. Describe how a thermometer with both scales can be used to convert between  $^{\circ}\text{C}$  and  $^{\circ}\text{F}$ .

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- b. Use your strategy to convert

i.  $50^{\circ}\text{C}$  to  $^{\circ}\text{F}$

ii.  $-10^{\circ}\text{F}$  to  $^{\circ}\text{C}$

- c. So far in this *Unit* you have always been able to use a proportion to convert between units. Explain why you cannot use the same strategy to convert between Celsius and Fahrenheit. (Hint: Zero will be important to your explanation.)

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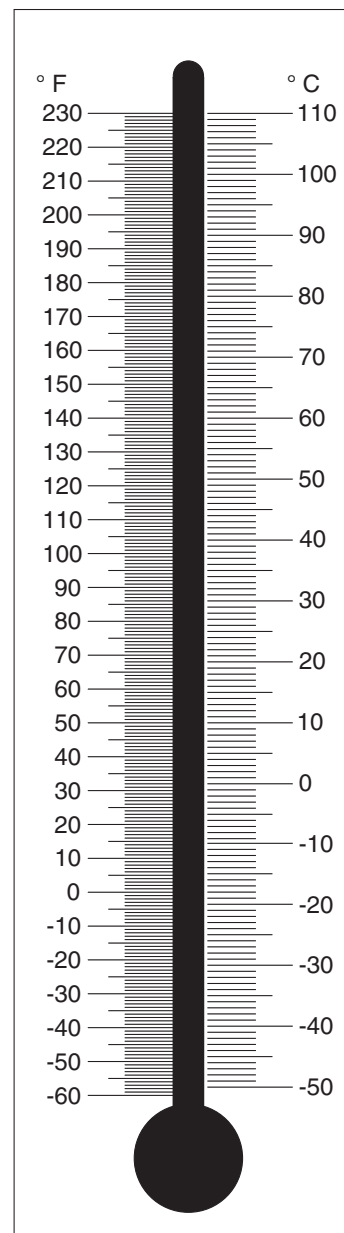
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4. You are considering purchasing one of two used vehicles. Online, you have found that one vehicle has a fuel economy of 36 mi/gal and the other has a fuel economy of 7.2 L/100 km. Assuming imperial gallons were used, which of the two vehicles is more fuel efficient? Be sure to explain your reasoning.

Mark your work for *Lesson 1.5 Practice – VI* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

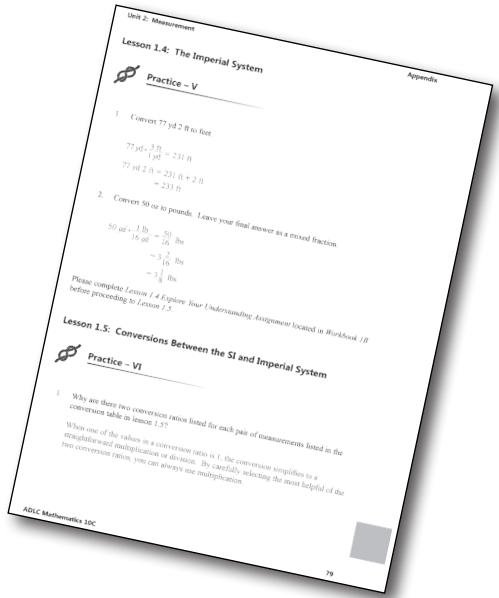
Transfer your self-assessed mark to the front cover of the *Workbook*.

My self-assessed mark on *Lesson 1.5 Practice – VI* is \_\_\_\_\_.

Reflect on your understanding of the concepts addressed in the *Practice* exercises in the table provided.

Question Number	Got it!	Almost there...	Need to retry or ask for help.
1			
2			
3			
4			

Please go to *Appendix* to check your solutions before proceeding to *Explore Your Understanding Assignment* on the next page of this *Workbook*.



**Note:** Before you complete *Explore Your Understanding* you may review your skills and get more practice by completing the following problems in *Mathematics 10*.

- Page 42, #1, 2, 4, 5, 7, 8, 10, 12

Check your work in *Enhance Your Understanding*.

