Coach's Corner Assessment

Coach's Corner provides practice and allows you to self-reflect on your conceptual understanding of the *Lesson* skills. Assessment of your work in *Coach's Corner* will be combined into two overall completion marks, one for *Workbook A* and one for *Workbook B*. Your work for *Coach's Corner* in each *Workbook* will be assessed according to the rubric provided.

Category	Strategy and Procedures	Response to Questions
	The student...	*The student...*
4	• uses efficient and effective strategies to solve the problem(s)	• provides detailed explanations and follows directions appropriately to complete all questions
3	• uses effective strategies to solve the problem(s)	• provides clear explanations and follows directions adequately to complete most questions
2	• uses effective strategies inconsistently to solve the problem(s)	• provides incomplete explanations and follows some directions to complete a few questions
1	• does not use effective strategies to solve the problem(s)	• provides incomplete explanations and does not follow directions to complete some questions

Complete *Coach's Corner* exercises using your best work, showing all relevant steps needed to arrive at your solution. Refer to the *Module* to review lesson instructions. Contact your teacher for assistance or clarification as needed, or to investigate the topic further.

Check and correct your work using the solutions provided in *Equipment Room* in the *Module*.

Coach's Corner is worth 8 marks.

After you have assessed your work, reflect on your understanding of the concepts addressed in the *Coach's Corner* exercises in the table provided.

Unit 5: Proportional Reasoning Lesson 5.1

Coach's Corner – I

1. At a federal government meeting, there were 40 Conservative MPs (Members of Parliament), 12 Bloc-Québecois MPs, 5 Green Party MPs, 25 NDP MPs, and 18 Liberal MPs. Write each ratio as a fraction in lowest terms.

   a. Bloc-Québecois MPs to Conservative MPs

   b. Green Party MPs to NDP MPs

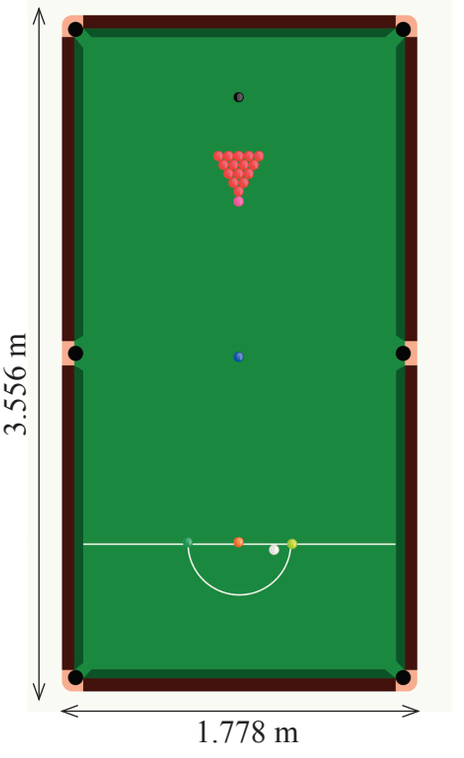
   c. Liberal and Bloc-Québecois MPs to Conservative MPs

2. If Nolan earns $67.50 for 6 hours of work, what is Nolan's hourly rate of pay?

3. Mr Nick drove 628 km using 44 litres of gasoline. What was his rate of kilometres driven per litre of fuel consumed?

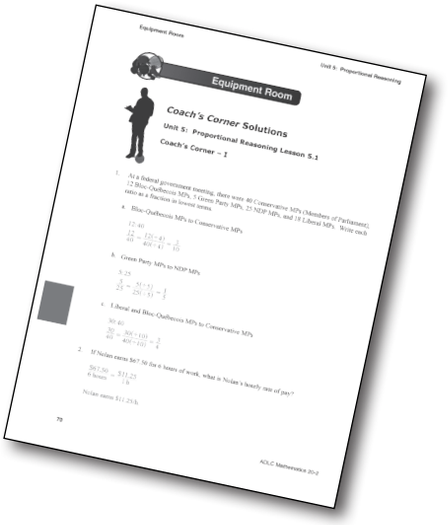
4. Shine-a-Lot toothpaste commercials claim that 5 out of 6 people prefer it. If this is true, how many people out of 300 would prefer Shine-a-Lot?

5. The following picture shows a drawing of a snooker pool table. What are the dimensions of the table, in feet, if 1 metre = 3.28084 feet?



Please go to *Equipment Room* to check your solutions before returning to *Lesson 5.1*.

After you have assessed your work, reflect upon your understanding of the concepts addressed in the *Coach's Corner* exercises in the table provided.


Equipment Room

Unit 5: Proportional Reasoning

Coach's Corner Solutions

Unit 5: Proportional Reasoning Lesson 5.1

Coach's Corner – 1

Question Number	Got it!	Almost there…	Need to retry or ask for help.
1			
2			
3			
4			
5			

Unit 5: Proportional Reasoning Lesson 5.1

Coach's Corner – II

1. How much washer fluid, to the nearest litre, could be purchased for $20.00, if 40L of washer fluid is $45.99?

2. Two local Alberta meat shops are competing for the best price on a particular cut of meat. Tip sirloin roast sells in a 6 kg package for $121.74 at the Meats Plus store. The same cut of meat at AAA Meats Shop sells a 1 kg package for $19.95. Which shops offers the better deal?

3. In a particular NHL season, the Edmonton Oilers won 9 games out of their first 15 games played. If this record continued for the rest of the season, how many games would they have won in an 82-game season?

4. In 2005, the oil sands produced 32 Megatonnes (Mt) of green-house gas (GHG) emissions. In 2010, 48 Mt of GHG emissions were produced. Calculate the average rate of increase in GHG emissions between those years.

5. Use the following information about the Great White North Triathlon to answer the following questions. Show all work.

   The Great White North Triathlon in Stony Plain, Alberta consists of a 2.0 km swim, a 90.0 km bicycle ride, and a 21.0 km run (half-marathon). The race must be completed in 8 hours. The swim cut-off time is 1.5 hours, the bike cut-off time is 4.5 hours, and the running cut-off time is 2.0 hours.

   Useful conversions and formulas:

   - 1 mile = 1.6 km
   - $\text{speed} = \frac{\text{distance}}{\text{time}}$
   - $\text{time} = \frac{\text{distance}}{\text{speed}}$

   a. Determine the average rate of speed required for each of the three events to stay within the mandatory cut-off times.

Swim	**Cycle**	**Run**

b. Convert each speed to miles per hour.

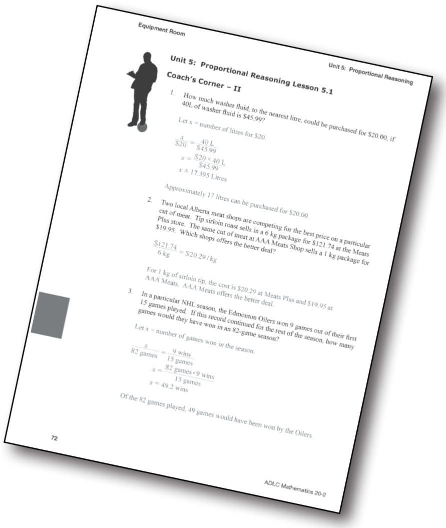
Swim	Cycle	Run

c. One racer had the following speeds:
1.2 mi/h for the swim, 16.5 mi/h for the cycle, and 5.0 mi/h for the run. How fast did the racer complete the race?

Swim	Cycle	Run

Please go to the *Equipment Room* to check your solutions before proceeding to *Game On!*, on the next page of this *Workbook*.

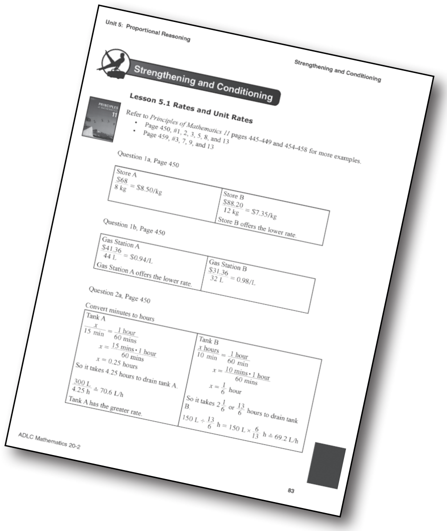
After you have assessed your work, reflect upon your understanding of the concepts addressed in the *Coach's Corner* exercises in the table provided.



Question Number	Got it!	Almost there…	Need to retry or ask for help.
1			
2			
3			
4			
5			

Note: Before you complete *Game On!*, you may review your skills and get more practice by completing the following problems in *Principles of Mathematics 11*.

- Page 450, #1, 2, 3, 5, 8, and 13
- Page 459, #3, 7, 9, and 13



Check your work in *Strengthening and Conditioning*.