

Practice Assessment

Practice provides practice and allows you to self-reflect on your conceptual understanding of the *Lesson* skills. You will mark your work for *Practice* in each *Workbook* according to the following rubric.

Category	Strategy and Procedures	Response to Questions
	<i>I have...</i>	<i>I have...</i>
4	<ul style="list-style-type: none"> used efficient and effective strategies to solve the problem(s) 	<ul style="list-style-type: none"> provided detailed explanations and followed directions appropriately to complete all questions
3	<ul style="list-style-type: none"> used effective strategies to solve the problem(s) 	<ul style="list-style-type: none"> provided clear explanations and followed directions adequately to complete most questions
2	<ul style="list-style-type: none"> used effective strategies inconsistently to solve the problem(s) 	<ul style="list-style-type: none"> provided incomplete explanations and followed some directions to complete a few questions
1	<ul style="list-style-type: none"> used ineffective strategies to solve the problem(s) 	<ul style="list-style-type: none"> provided incomplete explanations and have not followed directions to complete some questions

Complete *Practice* 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 *Appendix* in the *Module*.

Practice is worth 8 marks.

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

Lesson 6.1: Graphs of Relations

Complete the *Practice* below. When you have completed all the questions for *Lesson 6.1 Practice – I* 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 – I

1. The following families spent time camping in Kananaskis over the summer months:

Family	Days
The Jones	3
The McCartneys	5
The Taylors	12
The Browsers	14

- a. Describe the relation in words.

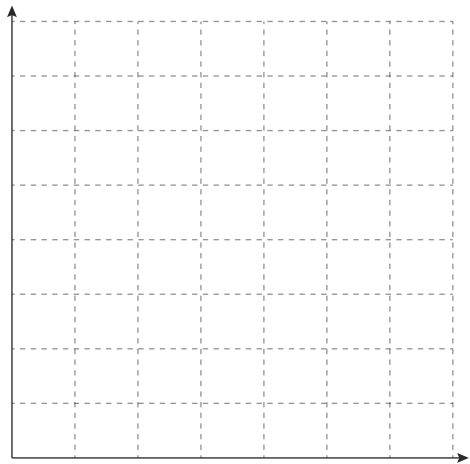
- b. Represent the relation using a mapping diagram.

2. Consider the relation represented by the set of ordered pairs shown.
 $\{(6, 36), (7, 42), (8, 48), (9, 54), (10, 60)\}$

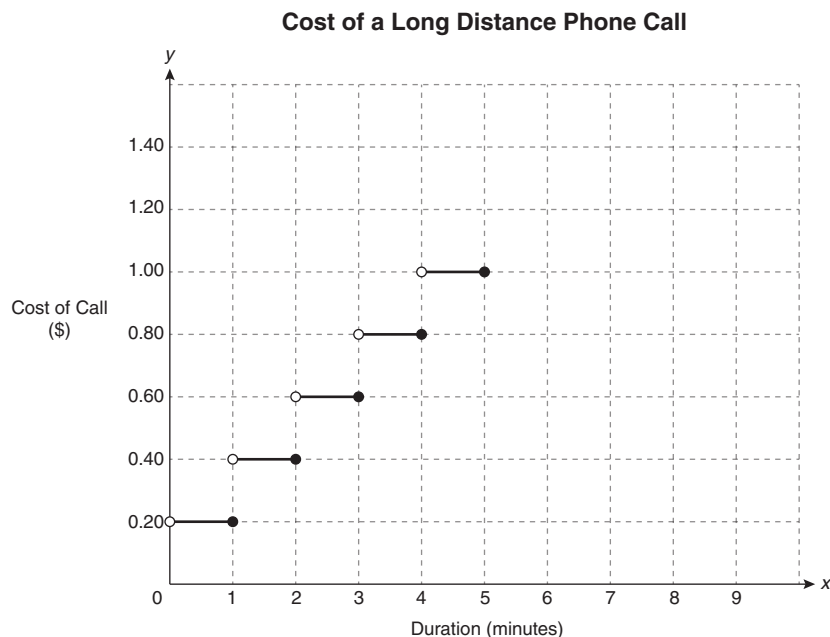
Describe the relation in words.

3. Game pieces of various lengths are colour-coded. The length of each colour, in millimetres, is given in the table. Graphically represent the relation.

Colour	Measurement (mm)
Red	50
Black	70
Yellow	40
Green	70
White	50
Blue	30



4. The following graph shows how a cell phone company bills for air time on long distance calls.



The graph shows that the cell phone company charges \$0.20 per minute or portion thereof. For instance, a 30 second phone call and a 45 second phone call will each get billed the \$0.20 cost of a one minute call. The line segments on the graph are not connected because as each minute elapses there is an automatic cost increase to the call of \$0.20.

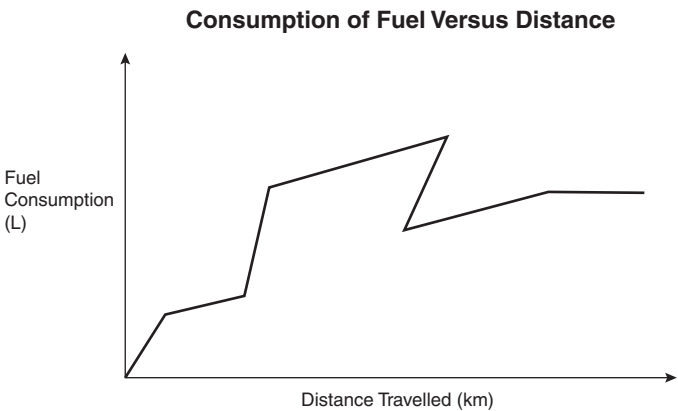
The open dot on the left side of each line segment indicates the exclusion of that value, while the closed dot on the right side of each line segment indicates the inclusion of that value.

For example, the open dot at $x = 1$ and $y = \$0.40$ means that any phone call that it is **more than** one minute, but less than and **including** two minutes is \$0.40.

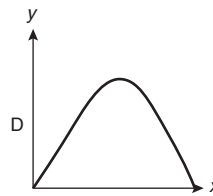
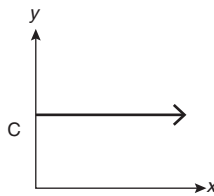
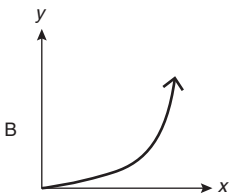
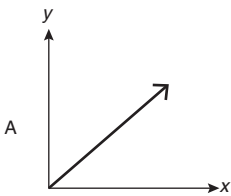
- a. How much would it cost for a 4.25 minute long distance call?

- b. How much would it cost for a 9.5 minute long distance call?

5. Explain why the graph below represents an impossible situation.



6. Match the graphs with the scenario statements below. Place the letter of the graph beside the most suitable description. Scenarios can match more than once.



- _____ The distance a car travels at a constant speed.
- _____ The number of bacteria if the colony's population doubles every two hours.
- _____ The height of a ball when thrown into the air.
- _____ One variable is changing at a constant rate in relation to the other variable.
- _____ One variable is not changing.
- _____ The distance travelled while stuck in a snow bank.

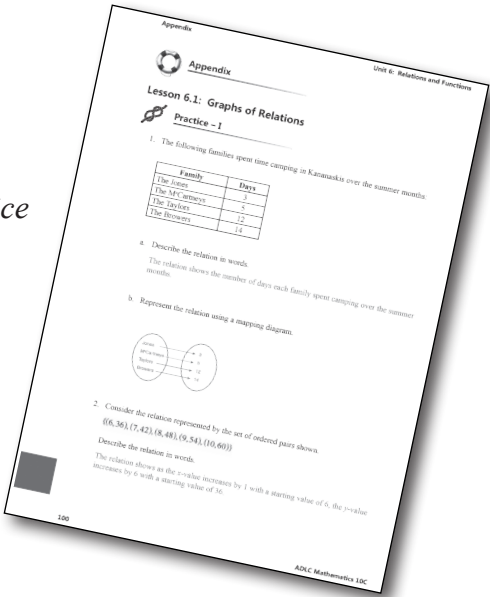
Mark your work for *Lesson 6.1 Practice – I* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

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

My self-assessed mark on *Lesson 6.1 Practice – I* 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			
5			
6			



You may proceed 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 274, #2a, 3, 4, 7, 8, 13, and 14
- Page 330, #2 and 3

Check your work in *Enhance Your Understanding*.

