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.

Catagory	Strategy and Procedures	Response to Questions	
Category	I have	I have	
4	• used efficient and effective strategies to solve the problem(s)	• provided detailed explanations and followed directions appropriately to complete all questions	
3	• used effective strategies to solve the problem(s)	provided clear explanations and followed directions adequately to complete most questions	
2	• used effective strategies inconsistently to solve the problem(s)	• provided incomplete explanations and followed some directions to complete a few questions	
1	• used ineffective strategies to solve the problem(s)	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.

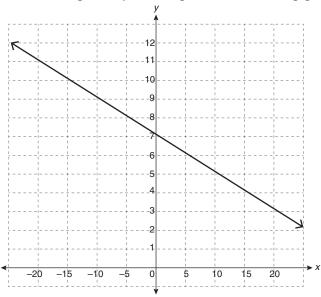
Lesson 7.1: Slope-Intercept Form of a Linear Equation

Complete the Practice below. When you have completed all the questions for $Lesson\ 7.1\ Practice\ -I$ 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. State the slope and y-intercept of the following graph. Explain how you determined each.



2. Write each of the following equations in slope-intercept form.

a.
$$y + 6 = 3x$$

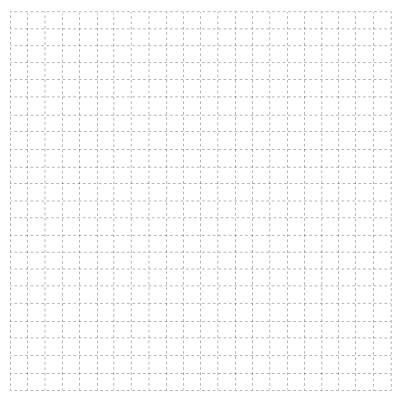
b.
$$x = 3y - 18$$

c.
$$3x + 12y + 22 = 0$$

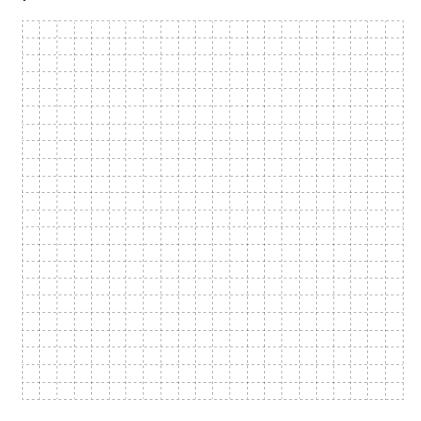
- 3. Consider the slope-intercept form of a linear equation, y = mx + b.
 - a. Explain how this form can be used to graph a relation by hand.

b. Graph each of the following.

i.
$$y = \frac{3}{5}x + 7$$



ii.
$$y = -200 - 40x$$

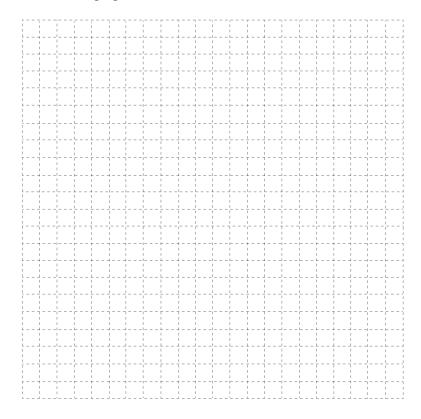


F	Explain how technology could be used to check your graphs from question 3.
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_	
-	
	The graph of a linear relation with a slope of 5.8 passes through the point $(-2,-5)$. Determine a equation for the relation, in slope-intercept form.
a	Explain how you can use the equation $y = 4.592x - 8.387$ to determine points on the corresponding graph.
b	State three points that could be used to graph the relation $y = 4.592x - 8.387$.

- 7. A plumbing company installs tankless hot water heaters and charges for both installation time and materials used.
 - a. The heater and supplies cost \$1 800 and the shop charges \$110/h for a plumber and an apprentice. Write an equation to represent the total cost to the customer. Be sure to state what each variable represents.



- b. i. What is the slope of the relation?
 - ii. What is the vertical-axis intercept of the relation?
- c. Sketch the graph of the relation.



d. If the installation takes 2 hours, how much will the customer be charged?

e. If a customer was charged \$2185, how long did the installation take?

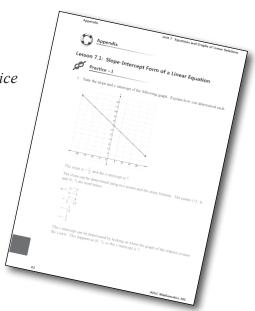
Mark your work for Lesson 7.1 Practice – I using the solutions provided in the Appendix. Then, apply the rubric found at the beginning of the Workbook.

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

My self-assessed mark on *Lesson 7.1 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			
7			



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 349, #1a, 1c, 1e, 2, 3c, 3d, 5a, 5c, 5e, 6b, 6f, 7, 8, 9a, 10d, and 13

Check your work in Enhance Your Understanding.

