

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 2: Solutions* in the *Module*.

Practice is worth 8 marks; your mark can help you gauge your understanding of *Lesson* material.

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

Lesson 5.1: Introduction to Rational Expressions

Complete the *Practice* below. When you have completed all the questions for *Lesson 5.1*

Practice – I with your best work, mark your work by first comparing your answers to the solutions provided in *Appendix 2: Solutions*. Then, apply the rubric found at the beginning of the *Workbook*.



Practice – I

1. Determine the non-permissible values for the rational expressions.

a. $\frac{44}{p-5}$

b. $\frac{4x-1}{3x^2-5x+2}$

2. Simplify the rational expressions, and state any non-permissible values.

a. $\frac{9w^2xy^3}{12wx^3y^3}$

b. $\frac{20a^2b - 25ab^2}{16a^2 - 25b^2}$

c. $\frac{2x^2 - 5x + 3}{5x^2 - 3x - 2}$

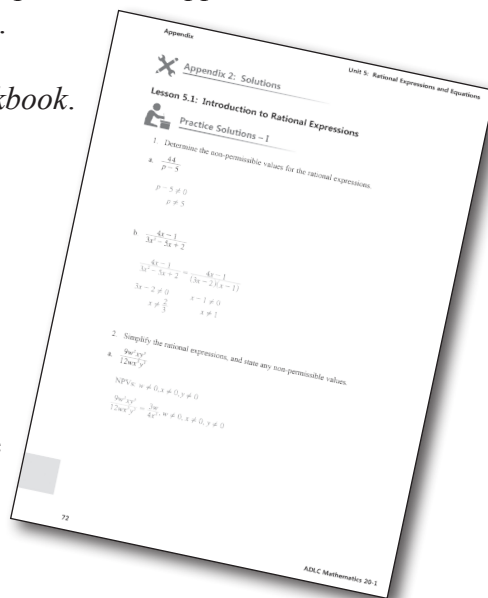
3. Two students, Matt and Quinn, simplified the rational expression $\frac{6x^2 + 13x - 5}{2x^2 + 3x - 5}$. Matt's answer is $\frac{3x - 1}{x - 1}, x \neq 1$ and Quinn's answer is $\frac{3x - 1}{x - 1}, x \neq 1, -\frac{5}{2}$. Who is correct, and why?
4. The volume of a cone is $d^2 - 3d - 10$. If the radius of the cone is $d - 5$, write a simplified rational expression that represents the height of the cone. Recall the formula for volume of a cone is $V = \frac{\pi r^2 h}{3}$, where h is the height and r is the radius.

Mark your work for *Lesson 5.1 Practice – I* using the solutions provided in *Appendix 2: Solutions*. 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 5.1 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.	Similar questions from <i>Pre-Calculus 11</i>
1				p. 317 #3ad, 4ace, 5bd
2				p. 318 #6ac, 7, 8bdf
3				p. 318 #9, 10, 14
4				p. 318 #15, 18

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 *Pre-Calculus 11*.

- Page 317 #3ad, 4ace, 5bd, 6ac, 7, 8bdf, 9, 10, 14, 15, and 18

Check your work in *Enhance Your Understanding*.

