

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 4.1: Prime Factors, Greatest Common Factors, and Least Common Multiples

Complete the *Practice* below. When you have completed all the questions for *Lesson 4.1 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

- A simple cryptosystem uses algorithms with prime factors for encryption and decryption. Given the character code chart below, decrypt the code using prime factorization.

Character Codes

Code	Character	Code	Character	Code	Character
2×5	A	2×13	L	$3 \times 3 \times 5$	W
$2 \times 2 \times 3$	B	$3 \times 3 \times 3$	M	2×23	X
2×7	C	$2 \times 2 \times 7$	N	$2 \times 2 \times 2 \times 2 \times 3$	Y
3×5	D	$2 \times 3 \times 5$	O	7×7	Z
$2 \times 2 \times 2 \times 2$	E	$2 \times 2 \times 2 \times 2 \times 2$	P	$2 \times 5 \times 5$	\$
$2 \times 3 \times 3$	F	2×17	Q	$2 \times 2 \times 13$	%
$2 \times 2 \times 5$	G	$2 \times 2 \times 3 \times 3$	R	$2 \times 3 \times 3 \times 3$	*
3×7	H	2×19	S	5×11	+
2×11	I	$2 \times 2 \times 2 \times 5$	T	$2 \times 2 \times 2 \times 7$	–
$2 \times 2 \times 2 \times 3$	J	$2 \times 3 \times 7$	U	2×29	.
5×5	K	$2 \times 2 \times 11$	V	$2 \times 2 \times 3 \times 5$:

32	36	22	27	16	15		18	30	36
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36	10	15	22	14	10	26	38	58
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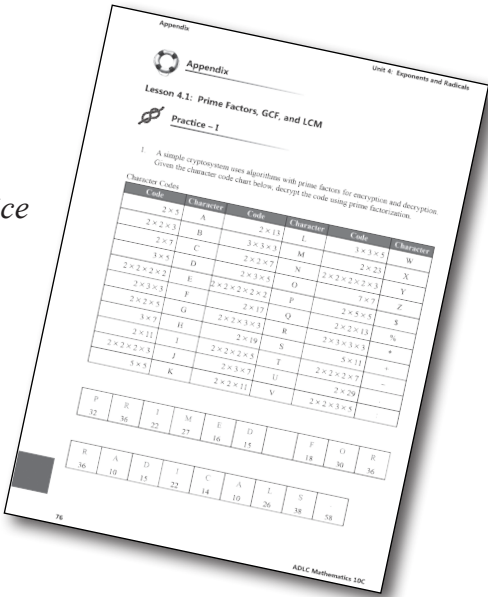
Mark your work for *Lesson 4.1 Practice – I* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

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

My self-assessed mark on *Lesson 4.1 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			



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 215, #1, 2, 3, and 4
- Page 222, #13

Check your work in *Enhance Your Understanding*.

