

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
	<i>The student...</i>	<i>The student...</i>
4	<ul style="list-style-type: none"> uses efficient and effective strategies to solve the problem(s) 	<ul style="list-style-type: none"> provides detailed explanations and follows directions appropriately to complete all questions
3	<ul style="list-style-type: none"> uses effective strategies to solve the problem(s) 	<ul style="list-style-type: none"> provides clear explanations and follows directions adequately to complete most questions
2	<ul style="list-style-type: none"> uses effective strategies inconsistently to solve the problem(s) 	<ul style="list-style-type: none"> provides incomplete explanations and follows some directions to complete a few questions
1	<ul style="list-style-type: none"> does not use effective strategies to solve the problem(s) 	<ul style="list-style-type: none"> 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 3: Logic and Reasoning Lesson 3.3**Coach's Corner – V**

1. Explain whether the reasoning in each of the following is correct.
 - a. Lions, tigers, cougars, bobcats and house cats all have sharp claws, so all cats have sharp claws.

 - b. Naim said Tahnee will win the race and Naim knows a lot about racing, so Tahnee will win.

 - c. A square is a rhombus because it has four equal sides.

 - d. All insects have an exoskeleton and a hornet is an insect, so it has an exoskeleton.

 - e. Nobody has ever disproved the existence of dragons, so they must exist.

2. A phrase the ancient Greek Philosopher Socrates is credited with is "I know that I know nothing". The statement stemmed from his belief that although one can be very confident in something, it is impossible to know anything with absolute certainty.

a. Explain why the statement "I know that I know nothing" is inconsistent.

b. Make up your own self-contradicting statement. Explain why it is self-contradictory.

3. Suppose two coins of the same type are laid side by side as shown in the diagram.

a. If one coin is rolled along the other coin, conjecture how many rotations the moving coin will undergo to make one trip around the second coin.



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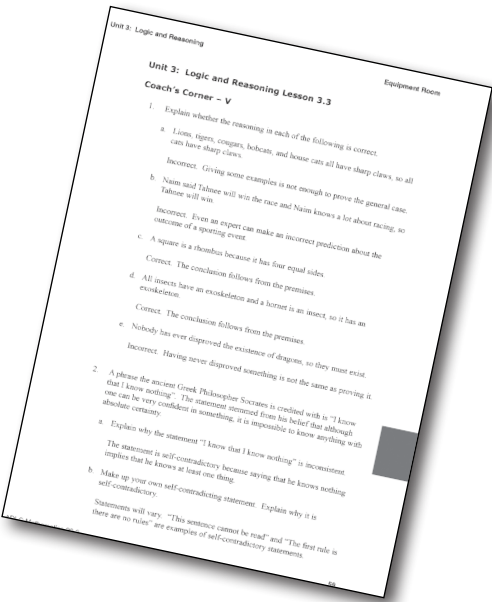
b. Test your conjecture. Was it correct? Revise it if not.

c. Explain why some people may find the number of rotations unexpected.

Please go to *Equipment Room* to check your solutions before returning to *Lesson 3.3*.

After you have assessed your work, reflect on 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			



Unit 3: Logic and Reasoning Lesson 3.3

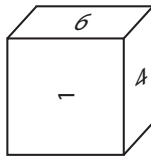


Coach's Corner – VI

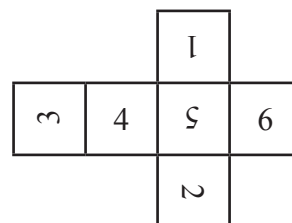
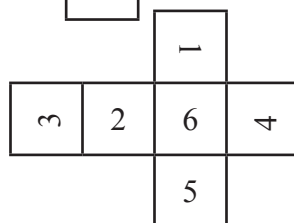
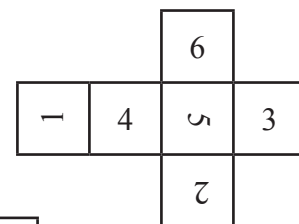
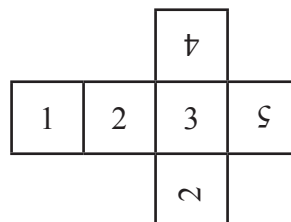
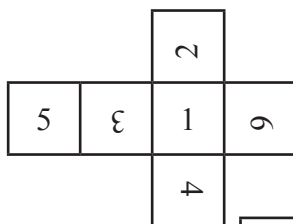
1. Fill in the blanks for the following long division.

$$\begin{array}{r}
 \square\square 9 \\
 \square \overline{) 3\square\square} \\
 \underline{\square} \\
 8 \\
 \underline{\square} \\
 \square\square \\
 \underline{\square} 7 \\
 \underline{} 0
 \end{array}$$

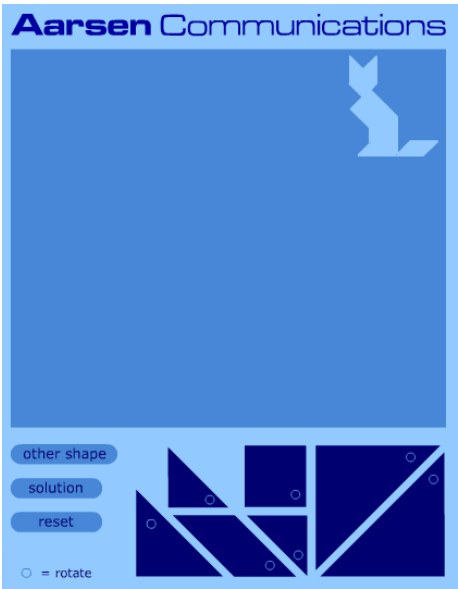
2. Consider the following cube.



Which of the following nets could have been used to make the cube? Explain.



3. Tangrams are a type of puzzle where you try to make a given shape using all of the smaller tiles. Try working with them at (<http://www.sonarweb.co.uk/cc/tangram.swf>).

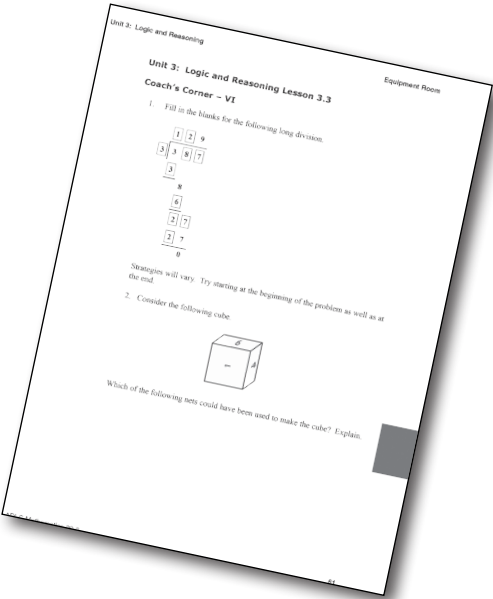


Explain how reasoning can be used to help you solve a tangram puzzle.

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 on your understanding of the concepts addressed in the *Coach's Corner* exercises in the table provided.

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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 42, #1, 3, 6a and 6b
- Page 49, #2, 5a, 7, 8, 10, 13, 14, and 18

Check your work in *Strengthening and Conditioning*.

