Name: <u>Student A</u>

Criteria	Performance Level	
	(Advanced, Proficient,	Rationale
	Developing, Emerging)	
		The student demonstrates an understanding of the
	Drafisiant	concepts and skills associated with the task. The
Mathematical	Proficient	student uses their understanding of right angle
Understanding		measures to help determine unknown angle
_		measures. The student finds the correct angle
		measures for the shaded shape by applying the
		concept of the sum of the interior angles totaling
		The student's strategy of outting and folding the
		riginal square in order to compare the unknown
		angle measure to the 00 degree angle of his desk
Problem Solving	Proficient	shows an understanding of the underlying
	Froncient	mathematical concent. The student produces a
		solution that is relevant to the problem
		The student's reasoning is limited to the justification
		of 90 degree angles. The student uses limited
Communication		mathematical language (90 degree angle, 180
and	Developing	degrees, and triangle). The student score could
Reasoning		move to Proficient by communicating solution steps
		and using precise mathematical language to express
		ideas (isosceles triangle, acute angle, sum of the
		Interior angles).
		limited to the chaded change. The student makes a
Poprocontations		nantial mathematical connection such as "This is a 00
and	Doveloping	degree angle because it is the same as the same of
Connections	Developing	my dosk "The student score could move to
Connections		Proficient by accurately labeling more angles

Name: <u>Student B</u>

Criteria	Performance Level (Advanced, Proficient, Developing, Emerging)	Rationale
Mathematical Understanding	Developing	The student demonstrates a partial understanding of the concepts and skills associated with the task. The student uses their understanding of the interior sums of a triangle totaling 180 degrees to lead their thinking to an incorrect solution for the shaded shape.
Problem Solving	Developing	The student's strategy of dividing 180 degrees by 3 to find the shaded shape's angle measures displays a limited understanding of the underlying math concept. The student's solution is relevant to the problem but is not reasonable for the shaded shape.
Communication and Reasoning	Developing	The student's reasoning contains misconceptions pertaining to the sum of the interior angles of the shaded shape all being equal. The student uses limited mathematical language to partially communicate thinking (90 degree angle, sum is 180 degrees)
Representations and Connections	Developing	The student's labeling of angles is incomplete and contains some inaccurate measures. The student makes a partial mathematical connection by knowing the sum of the unknown angles within the shaded shape must equal 180 degrees.

Name: <u>Student C</u>

Criteria	Performance Level	
	(Advanced, Proficient,	Rationale
	Developing, Emerging)	
Mathematical Understanding	Proficient	The student demonstrates an understanding of the concepts and skills associated with the task. The student uses their understanding of circles measuring 360 degrees to determine the 4 center angle measures of 90 degrees. The student finds the correct angle measures throughout the square window by applying their knowledge of circles to determine unknown angle measurements.
Problem Solving	Proficient	The student's strategy of finding unknown angle measures by using their knowledge of circles displays an understanding of the underlying mathematical concept. The student's solution is relevant to the problem and confirms the reasonableness of the solution.
Communication and Reasoning	Developing	 The student's reasoning justifies the solution for finding the correct angle measures of the shaded shape. However, the student uses limited mathematical language to partially communicate thinking (360 degree in a circle, half is like a protractor 180 degrees, 90 degrees). The student could move to a score of Proficient by supporting arguments with precise mathematical language: "I divided 360 degrees by 4 since I know that these angles are all an equal part of a circle." "The remaining angle measures in the triangle are 45 degrees because the sum of the interior angles of a triangle is 180 degrees." "I know this is true because these 2 angles add up to 180 degrees."
Representations and Connections	Proficient	The student's labeling of angles is accurate. The student makes relevant mathematical connections that are relevant to the context of the problem such as, "One side is half of a circle, like a protractor 180 degrees and the other side is another protractor 180 degrees, so all equal 360 degrees" and "90+45x2=180".

Name: <u>Student D</u>

Criteria	Performance Level	
	(Advanced, Proficient,	Rationale
Mathematical Understanding	Proficient	The student demonstrates an understanding of the concepts and skills associated with the task. The student uses their understanding right angles to locate other right angles within the square window. The student finds the correct angle measures throughout the square window by applying their knowledge of straight angles equaling 180 degrees to determine unknown angle measurements.
Problem Solving	Proficient	The student's strategy of finding right angles and using straight angle measures to find unknown angle measures displays an understanding of the underlying mathematical concept. The student's solution is relevant to the problem and confirms the reasonableness of the solution.
Communication and Reasoning	Developing	 The student's reasoning justifies the solution for finding the correct angle measures of the shaded shape and within the square window. The student uses limited mathematical language to partially communicate thinking. The student could move to a score of Proficient by supporting arguments with precise mathematical language such as: "I found all of the right angle measures first. Next, I found the missing angle measures for the straight angles by subtracting the known angle from 180 degrees." "I know the sum of the interior angles of a triangle is 180 degrees, so I added 90+45+45 to prove that the angle measures are correct."
Representations and Connections	Proficient	The student's labeling of angles is accurate. The student makes mathematical connections that are relevant to the context of the problem such as, "90+45+45=180" and uses the correct representation for right angles.

Name: <u>Student E</u>

Criteria	Performance Level	
	(Advanced, Proficient,	Rationale
	Developing, Emerging)	
		The student demonstrates a partial understanding of
		the concepts and skills associated with the task. The
		student uses their understanding of the sum of the
	Developing	interior angles of a triangle equaling 180 degrees to
Mathematical		incorrectly determine the interior angle measures
Understanding		for the shaded shape. The student finds some
		correct angle measures throughout the square
		angles equaling 180 degrees to determine unknown
		angle measurements
		The student's strategy of finding missing angles
		measures based off of the sum of the interior angles
		of a triangle displays a limited understanding of the
Problem Solving	Developing	underlying mathematical concept. The student's
		solution is relevant to the problem but is not
		reasonable for the shaded shape.
		The student's reasoning contains misconcentions
		nertaining to the sum of the interior angles of the
Communication		shaded shape. The student uses limited
and	Developing	mathematical language to partially communicate
Reasoning		thinking (right angle, 180/3=60). The student uses
		limited mathematical language to incorrectly
		communicate thinking (equilateral triangle).
		The student's labeling of angles is incomplete and
		contains some inaccurate measures. The student
Representations		makes a partial mathematical connection by
and	Developing	knowing the sum of the unknown angles within the
Connections		shaded shape must equal 180 degrees.

Name: <u>Student F</u>

Criteria	Performance Level	
	(Advanced, Proficient,	Rationale
	Developing, Emerging)	
Mathematical Understanding	Proficient	The student demonstrates an understanding of the concepts and skills associated with the task. The student uses their understanding right angles to locate other right angles within the square window. The student finds the correct angle measures throughout the square window by applying their knowledge of straight angles equaling 180 degrees to determine unknown angle measurements.
Problem Solving	Proficient	The student's strategy of finding right angles and using straight angle measures to find unknown angle measures displays an understanding of the underlying mathematical concept. The student's solution is relevant to the problem and confirms the reasonableness of the solution.
Communication and Reasoning	Developing	 The student's reasoning justifies the solution for finding the correct angle measures of the shaded shape and within the square window. The student uses limited mathematical language to partially communicate thinking. The student could move to a score of Proficient by supporting arguments with precise mathematical language such as: "I found all of the right angle measures first. Next, I found the missing angle measures for the straight angles by subtracting the known angle from 180 degrees." "I know the sum of the interior angles of a triangle is 180 degrees, so I added 90+45+45 to prove that the angle measures are correct."
Representations and Connections	Developing	The student's labeling of angles is accurate. The student makes mathematical connections that are relevant to the context of the problem such as, "90+45+45=180" and uses the correct representation for right angles.