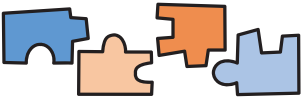
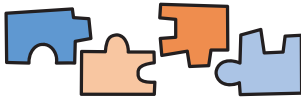
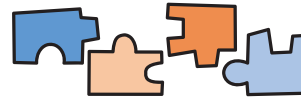
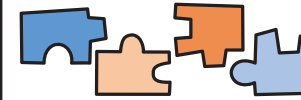

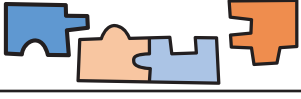
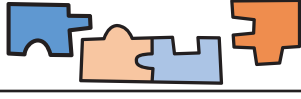
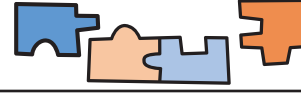
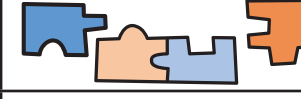
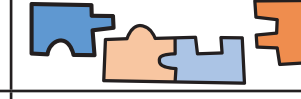





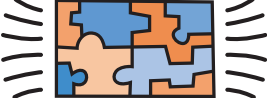
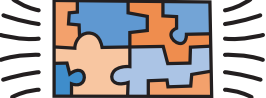
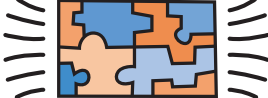
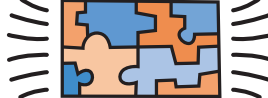


## Jigsaw Student Rubric

Level	Problem Solving	Reasoning and Proof	Communication	Connections	Representation
<p><b>Novice</b> Makes an effort. No or little understanding.</p>	<p>I did not understand the problem.</p> 	<p>My math thinking is not correct.</p> 	<p>I used no math language and/or math notation.</p> 	<p>I did not notice anything about the problem or the numbers in my work.</p> 	<p>I did not use a math representation to help solve the problem and explain my work.</p> 
<p><b>Apprentice</b> Okay, good try. Unclear if student understands.</p>	<p>I understand only part of the problem. My strategy works for part of the problem.</p> 	<p>Some of my math thinking is correct.</p> 	<p>I used some math language and/or math notation.</p> 	<p>I tried to notice something, but it is not about the math in the problem.</p> 	<p>I tried to use a math representation to help solve the problem and explain my work, but it has mistakes in it.</p> 
<p><b>Practitioner</b> Excellent. Clear. Strong understanding. Meets the standard.</p>	<p>I understand the problem and my strategy works. My answer is correct.</p> 	<p>All of my math thinking is correct.</p> 	<p>I used math language and/or math notation accurately throughout my work.</p> 	<p>I noticed something about my math work.</p> 	<p>I made a math representation to help solve the problem and explain my work, and it is labeled and correct.</p> 
<p><b>Expert</b> Wow, awesome! Exceptional understanding!</p>	<p>I understand the problem. My answer is correct. I used a rule, and/or verified that my strategy is correct.</p> 	<p>I showed that I knew more about a math idea that I used in my plan. Or, I explained my rule.</p> 	<p>I used a lot of specific math language and/or notation accurately throughout my work.</p> 	<p>I noticed something in my work, and used that to extend my answer and/or I showed how this problem is like another problem.</p> 	<p>I used another math representation to help solve the problem and explain my work in another way.</p> 