

## 20 Questions

**Use with:** Math by Myself or Math with Someone

<b>Concept</b>	Understand ratio concepts and use ratio reasoning to solve problems.
<b>Materials Needed</b>	<p>Each student/pair of students will need:</p> <ul style="list-style-type: none"> <li>• 20 Questions Recording Sheet (copied front-to-back) or 20 index cards</li> <li>• Pencil</li> </ul> <p>One Class set of:</p> <ul style="list-style-type: none"> <li>• 20 Questions activity cards</li> <li>• Answer Key</li> </ul>
<b>Directions</b>	<p><b>Setting up 20 Questions Activity Cards</b></p> <ol style="list-style-type: none"> <li>1. Create 20 questions that cover the math concept of your choice (<i>see example of solving for proportional relationships</i>).</li> <li>2. Write one math problem/question on a single index card (<i>or use the provided template</i>).</li> <li>3. Once the 20 cards are completed, number the opposite side of each card 1-20 (<i>cards will be placed face down</i>).</li> <li>4. Place the question cards face down at a designated place in the classroom (providing students an opportunity to walk to the cards). The cards can also be kept in a plastic baggie or they can be hole-punched and put on a ring for students to complete independently.</li> </ol> <p><b>Playing 20 Questions</b></p> <ol style="list-style-type: none"> <li>1. Students select a question from the deck of cards. They may choose to start at <i>any</i> place on the recording sheet (e.g. they could choose to start with question 13).</li> <li>2. Solve the problem/question on the selected card.</li> <li>3. Return the card to the designated location in the room and select another, or choose another card on the baggie or ring if done independently.</li> <li>4. Continue completing problems/questions until all 20 questions have been answered.</li> <li>5. Students check their answers using the answer sheet (<i>post somewhere that students can quickly reference without being disruptive</i>)</li> </ol>
<b>Differentiate</b>	<p><b>To differentiate for students who are struggling:</b></p> <ul style="list-style-type: none"> <li>• Provide an alternate set of question cards with easier problems/questions</li> </ul> <p><b>To differentiate for students who are more advanced:</b></p> <ul style="list-style-type: none"> <li>• Provide an alternate of question cards with more challenging problems/questions.</li> </ul>