

**EXAMPLES OF THE COMPONENT IDENTIFICATION PROCESS FOR THE MATHEMATICS A REGENTS EXAMINATION**

**Senior Worksheet A for Senior X**

Senior Name: Senior X Other Senior Identifier: SX1  
 Name of Next-to-Last Regents Examination Taken: Mathematics A Examination Period: August 2001 Score: 53  
 Name of Last Regents Examination Taken: Mathematics A Examination Period: January 2002 Score: 51

Senior X took the Mathematics A examination in August 2001 and received a final score of 53. The senior retook the examination in January 2002 and received a final score of 51. Table A below lists Senior X's scores and sums for each component of these two examinations. The sums for each component and

the criterion scores were entered in Table B (see next page). This table shows that Senior X's weakness pattern for both examinations is 4, 5 & 6/5 & 6. Since Senior X's best score was 53, Senior X must retest on two components. Based on Table C, this senior should take components 5 and 6 in April 2002.

Part of Table A for Senior X

August 2001					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	9	2	—	7	10
	14	2	2		
	15	2	—		
	21	2	1		
	28	3	1		
	30	3	1		
	31	4	2		
<i>Measurement</i> Component 5	1	2	2	5	8
	5	2	—		
	8	2	—		
	10	2	2		
	22	2	—		
	33	4	1		
<i>Uncertainty</i> Component 6	7	2	2	3	5
	11	2	—		
	26	3	1		
<i>Patterns/ Functions</i> Component 7	18	2	2	7	7
	24	2	—		
	32	4	3		
	35	4	2		
Weak Component(s): <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7					

January 2002					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	8	2	2	9	9
	13	2	—		
	16	2	2		
	23	2	—		
	25	2	1		
	29	3	1		
	34	4	3		
	<i>Measurement</i> Component 5	2	2		
10		2	2		
22		2	—		
26		3	1		
27		3	2		
30		3	—		
33		4	2		
<i>Uncertainty</i> Component 6	9	2	—	2	3
	18	2	—		
	31	4	2		
<i>Patterns/ Functions</i> Component 7	3	2	—	8	6
	4	2	2		
	15	2	—		
	28	3	2		
	32	4	1		
	35	4	3		
Weak Component(s): <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7					

**Senior Worksheet B for Senior X**

Senior Name \_\_\_\_\_ Senior X \_\_\_\_\_ Other Senior Identifier \_\_\_\_\_ SX1 \_\_\_\_\_

**Table B for Senior X**

<b>Date of Next-to-Last Examination Taken: <u>August 2001</u></b>				<b>Date of Last Examination Taken: <u>January 2002</u></b>			
<b>Final Score: <u>53</u></b>				<b>Final Score: <u>51</u></b>			
Com- ponent	Key Idea	Component Score		Com- ponent	Key Idea	Component Score	
		Sum	Criterion			Sum	Criterion
<b>4</b>	<b>Modeling/Multiple Representation</b>	<b>7</b>	<b>10</b>	<b>4</b>	<b>Modeling/Multiple Representation</b>	<b>9</b>	<b>9</b>
<b>5</b>	<b>Measurement</b>	<b>5</b>	<b>8</b>	<b>5</b>	<b>Measurement</b>	<b>9</b>	<b>13</b>
<b>6</b>	<b>Uncertainty</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>Uncertainty</b>	<b>2</b>	<b>3</b>
<b>7</b>	<b>Patterns/Functions</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>Patterns/Functions</b>	<b>8</b>	<b>6</b>
<b>Weak Component(s): <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7</b>				<b>Weak Component(s): <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7</b>			
<b>Component(s) to Retest: <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7</b>							

## Senior Worksheet A for Senior Y

Senior Name: Senior Y Other Senior Identifier: SY2  
 Name of Next-to-Last Regents Examination Taken: Mathematics A Examination Period: June 2001 Score: 49  
 Name of Last Regents Examination Taken: Mathematics A Examination Period: January 2002 Score: 51

Senior Y earned a final score of 49 on the June 2001 examination and a final score of 51 on the January 2002 examination. Senior Y transferred to a new high school for the senior year, and Senior Y's examination paper and/or record of part scores for the June 2001 examination could not be obtained. Based on Table D, Components 4 and 7 are assumed to be the weak components for a score of 49 on that examination. Table A (see next page) lists Senior Y's scores and sums for each

component of the January 2002 examination. The sums for each component and the criterion scores were entered in Table B (see page 14). This senior's weakness pattern for both examinations is 4 & 7/4 & 5. Since Senior Y's best score was 51, senior Y must retest on two components. Based on Table C, Senior Y should take Components 4 and 5 in April 2002.

### Table A for Senior Y

June 2000					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> <b>Component 4</b>	1	2			
	14	2			
	22	2			
	27	3			
	32	4			<b>5</b>
<i>Measurement</i> <b>Component 5</b>	4	2			
	9	2			
	10	2			
	17	2			
	24	2			
	30	3			
	33	4			<b>9</b>
<i>Uncertainty</i> <b>Component 6</b>	16	2			
	23	2			
	34	4			<b>3</b>
<i>Patterns/ Functions</i> <b>Component 7</b>	7	2			
	8	2			
	12	2			
	18	2			
	25	2			
	31	4			
	35	4			<b>8</b>
<b>Weak Component(s):</b> <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

June 2001					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> <b>Component 4</b>	3	2			
	6	2			
	7	2			
	17	2			
	22	2			
	23	2			
	26	3			
	29	3			
	31	4			<b>NA</b>
<i>Measurement</i> <b>Component 5</b>	1	2			
	5	2			
	15	2			
	16	2			
	24	2			
	27	3			
	32	4			
	34	4			<b>NA</b>
<i>Uncertainty</i> <b>Component 6</b>	14	2			
	25	2			
	30	3			<b>NA</b>
<i>Patterns/ Functions</i> <b>Component 7</b>	4	2			
	18	2			
	19	2			
	28	3			
	33	4			<b>NA</b>
<b>Weak Component(s):</b> <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7					

Senior Name: Senior Y Other Senior Identifier: SY2  
 Name of Next-to-Last Regents Examination Taken: Mathematics A Examination Period: June 2001 Score: 49  
 Name of Last Regents Examination Taken: Mathematics A Examination Period: January 2002 Score: 51

August 2001					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	9	2			
	14	2			
	15	2			
	21	2			
	28	3			
	30	3			
	31	4			
					<b>10</b>
<i>Measurement</i> Component 5	1	2			
	5	2			
	8	2			
	10	2			
	22	2			
	33	4			
	34	4			
					<b>8</b>
<i>Uncertainty</i> Component 6	7	2			
	11	2			
	26	3			
	27	3			
					<b>5</b>
<i>Patterns/ Functions</i> Component 7	18	2			
	24	2			
	32	4			
	35	4			
					<b>7</b>
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

January 2002					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	8	2	—		
	13	2	2		
	16	2	—		
	23	2	1		
	25	2	—		
	29	3	3		
	34	4	1		
<i>Measurement</i> Component 5	2	2	—		
	10	2	2		
	22	2	—		
	26	3	2		
	27	3	1		
	30	3	1		
	33	4	2		
					<b>8</b>
<i>Uncertainty</i> Component 6	9	2	2		
	18	2	—		
	31	4	2		
					<b>4</b>
<i>Patterns/ Functions</i> Component 7	3	2	2		
	4	2	2		
	15	2	—		
	28	3	1		
	32	4	1		
	35	4	2		
					<b>8</b>
					<b>9</b>
Weak Component(s): <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

### Senior Worksheet B for Senior Y

Senior Name \_\_\_\_\_ Senior Y \_\_\_\_\_ Other Senior Identifier \_\_\_\_\_ SY2 \_\_\_\_\_

**Table B for Senior Y**

Date of Next-to-Last Examination Taken: <u>June 2001</u> Final Score: <u>49</u>				Date of Last Examination Taken: <u>January 2002</u> Final Score: <u>51</u>			
Com- ponent	Key Idea	Component Score		Com- ponent	Key Idea	Component Score	
		Sum	Criterion			Sum	Criterion
<b>4</b>	<b>Modeling/Multiple Representation</b>			<b>4</b>	<b>Modeling/Multiple Representation</b>	<b>7</b>	<b>9</b>
<b>5</b>	<b>Measurement</b>			<b>5</b>	<b>Measurement</b>	<b>8</b>	<b>13</b>
<b>6</b>	<b>Uncertainty</b>			<b>6</b>	<b>Uncertainty</b>	<b>5</b>	<b>3</b>
<b>7</b>	<b>Patterns/Functions</b>			<b>7</b>	<b>Patterns/Functions</b>	<b>8</b>	<b>6</b>
Weak Component(s): <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7				Weak Component(s): <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7			
Component(s) to Retest: <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7							