

**Principles of Mathematics 10: Shape and Space  
Item-Level Response Report (Provincial Level)**

**British Columbia**

**All Schools**

**June/2008**

Provincial Principles of Mathematics 10 Item-Level Response Reports include data for all BC students who wrote the exam in June 2008 (about 26,690 students). Both public and independent schools are included. The Principles of Mathematics 10 June 2008 provincial Item-Level Response Report displays the proportion of students who made errors on each exam item of this domain: Shape and Space.

Click [here](#) to view the Prescribed Learning Outcomes

Form	Item #	Question type	Prescribed Learning Outcomes	Number of Students who Responded to the Item	Percentage of Students who Answered Incorrectly	Specific Curricular Aspect that Needs Attention [ $>20\%$ selected incorrect response]
A	46	MC	C1	26613	31	*
A	47	MC	C1	26506	30	*
A	48	MC	C2	26549	34	<ul style="list-style-type: none"> <li>Students correctly used the calculator to find an angle with a given sine ratio, but did not notice that all solutions between 0 and 180 were required.</li> </ul>
A	50	MC	C3	26601	62	<ul style="list-style-type: none"> <li>Students incorrectly used the tan ratio in a non-right triangle.</li> </ul>
A	51	MC	C3	26439	48	*
A	52	MC	C4	26582	32	*
A	53	MC	C4	26492	47	<ul style="list-style-type: none"> <li>Students correctly obtained the diameter of a circle knowing its endpoints, but used the formula for circumference instead of area.</li> </ul>
A	54	MC	C5	26559	27	*

A	56	MC	C7	26638	52	<ul style="list-style-type: none"> <li>Students made a sign error in finding the y-intercept of the equation of a line knowing the slope and a point on the line.</li> </ul>
A	57	MC	C7	26557	59	<ul style="list-style-type: none"> <li>When determining which equation corresponds to a line passing through 2 points, students made an arithmetic error and obtained an incorrect constant term in the standard equation.</li> </ul>
A	58	MC	C7,C8	26570	57	<ul style="list-style-type: none"> <li>When determining the equation of a line, students correctly identified the slope but made a sign error in obtaining the x-intercept.</li> <li>When determining the equation of a line, students correctly obtained the x-intercept but made a sign error in finding the slope.</li> </ul>
A	59	MC	C8	26623	31	*
A	60	MC	C8	26579	52	*

Note:

(1) A description of the misconception is given when more than 20% of students answered the item incorrectly (i.e. selected a distractor).

(2) 'N/A' indicates that fewer than 20% of students answered the item incorrectly. Therefore, no description is provided.

(3) '\*' indicates that more than 20% of students answered the item incorrectly, but no single distractor was selected by more than 20% of the students. Therefore, no description is provided.