

**Principles of Mathematics 10: Numerical Response
Item-Level Response Report (Provincial Level)**

British Columbia

All Schools

June/2009

Provincial Principles of Mathematics 10 Item-Level Response Reports include data for all BC students who wrote the exam in June 2009 (about 26,355 students). Both public and independent schools are included. The Principles of Mathematics 10 June 2009 provincial Item-Level Response Report displays the proportion of students who made errors on each exam item (Number, Patterns and Relations, Shape and Space) that require a Numerical Response. For each exam item, the report provides a description of the specific curricular aspects that need attention.

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

Form	Item #	Domain	Prescribed Learning Outcomes	Number of Students who Responded to the Item	Percentage of Students who Answered Incorrectly	Specific Curricular Aspect that Needs Attention
A	7	Number	A4	26354	29	Students did not know how to evaluate radicals with a negative radicand or an index greater than 2 or made arithmetic errors when adding two radicals.
A	15	Number	A3	26352	43	Students did not know how to use the calculator to evaluate a radical and/or how to take the reciprocal of the result and/or did not give the result with two decimal places.
A	20	Patterns and Relations	B11	26354	25	When given three points representing a linear function, students did not know how to find the y -coordinate of a fourth point, given its x -coordinate.
A	30	Patterns and Relations	B16	26353	24	Students did not know how to compute total weekly earnings involving a base salary and commission for sales and/or did not give the result at the nearest dollar.
A	33	Patterns and Relations	B4	26351	55	Students did not know what a perfect square trinomial is and/or did not know how to use the middle term to find the unknown value for one perfect square in the trinomial.

A	41	Patterns and Relations	B8	26352	54	Students did not know the meaning of non-permissible values of a rational expression and/or made a mistake in solving a linear equation to find the value for which the expression was undefined.
A	49	Shape and Space	C2	26352	37	Students did not know how to solve a trigonometric equation and/or did not know how to use the calculator to find an angle with a given cosine and/or did not know the properties of the cosine ratios for obtuse angles and/or did not give the result to the nearest degree.
A	55	Shape and Space	C6	26352	62	Students did not know how to obtain the slope of a line using the values of the intercepts and/or did not know how to work out the slope-intercept form of the equation of a line and/or made a numerical mistake in solving a linear equation.