

**Principles of Mathematics 10: Numerical Response
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 (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	A6	23339	39	Students did not know how to write a radical as a power with a fractional exponent and/or did not correctly identify the exponent and/or did not convert it to a decimal value.
A	15	Number	A3	24722	35	Students did not know how to use the calculator to evaluate two radicals and/or did not know how to handle the radical of a radical and/or did not give the result with two decimal places.
A	20	Patterns and Relations	B12	24979	31	Students did not know how to use a function notation and/or made a mistake when they substituted the value of x and/or made numerical mistakes with integers.
A	30	Patterns and Relations	B16	25546	28	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	22072	65	Students did not know what a perfect square trinomial is and/or could not find the coefficient of one term using the other terms in the trinomial.
A	41		B8	25415	41	Students did not know the meaning of non-permissible

		Patterns and Relations				values of a rational expression and/or made a mistake factoring a difference of squares in the denominator and/or did not include all possible values because they cancelled factors.
A	49	Shape and Space	C3	24209	47	Students did not know how to apply the sine law and/or made mistakes in using the calculator to obtain sine ratios and/or made a mistake in solving an equation and/or did not give the result to two decimal places.
A	55	Shape and Space	C6	24825	28	Students did not know how to obtain a slope using the graph of a line and/or did not identify convenient points on the graph to set up the slope ratio and/or made a numerical mistake with integers and/or did not simplify the fraction.