

Grade Seven Numeracy: An Item-level Analysis –Written response questions (Provincial level)

British Columbia

All Schools

FSA May/2007

FSA population (N=43,527)

Content Area	Item #	Number(%) of Respondents	Number(%) of Score0	Number(%) of Score1	Number(%) of Score2	Number(%) of Score3	Number(%) of Score4
Patterns and Relations	21	43527 (100%)	11764 (27%)	5984 (14%)	11627 (27%)	2603 (6%)	11549 (27%)
Statistics and Probability	42	43527 (100%)	3571 (8%)	12072 (28%)	11886 (27%)	11014 (25%)	4984 (12%)

Score Description

Grade 7 Numeracy scoring rubric (click [here](#))

General Comments - Grade 7 Numeracy

Student Strengths

Educators on the marking committee have identified areas of student strengths in Numeracy.

When solving a Patterns and Relations problem, students demonstrated good organizational skills and problem solving strategies. Many students were able to find a pattern in their solution and complete their work.

When solving a Statistics and Probability problem, students used a wide variety of strategies. Many students were able to calculate the information in the question, create a bar graph and label the x and y axis.

Implications for Instruction

The marking committee has identified the following suggestions for student improvement:

- Improvement in organization and layout of work on the page
- Practice solving multi-step problems using a variety of approaches and strategies
- More instruction on all the components of bar graphs: including bars being separate, appropriate and correct scale
- More instruction on solving problems involving fractions and per cent

The committee also suggests that students read the questions carefully and check their work to see if answers are reasonable.