

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

British Columbia

All Schools

FSA May/2005

FSA population (N=51,221)

Content Area	Item #	Number(%) of Respondents	Number(%) of Score0	Number(%) of Score1	Number(%) of Score2	Number(%) of Score3	Number(%) of Score4
Statistics and Probability	21	44774 (100%)	798 (2%)	851 (2%)	11099 (25%)	14987 (34%)	17039 (38%)
Shape and Space	42	44643 (100%)	6472 (15%)	9467 (21%)	8339 (19%)	5677 (13%)	14688 (33%)

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 Statistics and Probability problem, students were able to use a variety of strategies to create organized lists showing different combinations of single digit numbers to produce different three digit numbers.

When solving a Shape and Space problem, students demonstrated good reasoning skills and used a wide variety of strategies to determine the number of black and white tiles used when a tiling pattern was extended.

Implications for Instruction

The marking committee has offered the following suggestions for instruction to address the areas requiring improvement:

- Use appropriate strategies which help to organize work
- Use mathematical tools to improve accuracy eg. rulers
- Recognize patterns and generalize rules
- Practice solving multi-step problems using a variety of approaches

The committee also suggests that students read the questions carefully and draw conclusions by writing a summary statement.