

Outcome Correlation: A New Arena Mathematics 20-1

ASSESSMENT AND EVALUATION OF STUDENT LEARNING

This performance task is designed to gather assessment evidence for the following learner outcomes (shown in Times New Roman font) from the Alberta Mathematics Program of Studies (2008).

Learner Outcomes		Criteria for Evaluation *
General Outcome – Relations and Functions Develop algebraic and graphical reasoning through the study of relations.		Students provide evidence of their learning as they:
Strand	Specific Outcomes	
Relations and Functions	9. Analyze arithmetic sequences and series to solve problems. [CN, PS, R]	<ul style="list-style-type: none"> • solve problems (arithmetic)
Relations and Functions	10. Analyze geometric sequences and series to solve problems. [PS, R]	<ul style="list-style-type: none"> • solve problem (geometric)
Relations and Functions	9. Analyze arithmetic sequences and series to solve problems. [CN, PS, R] 10. Analyze geometric sequences and series to solve problems. [PS, R]	<ul style="list-style-type: none"> • identify and explain assumptions

* Criteria statements appear again in the first column of the evaluation tools (checklists, rating scales and/or rubrics) and are the basis on which student evaluation is made relative to the learner outcomes.

Mathematical processes are skills that are addressed at all grade levels. They are not taught as discrete skills, but are integrated into the specific outcomes. Links to the processes identified in the Program of Studies are indicated within square brackets after the specific outcomes.

Throughout this task, the following mathematical processes are specifically addressed:

- Communication: communicate in order to clarify, reinforce and modify ideas.
- Connections: connect mathematical ideas to each other or to the real world.
- Problem Solving: develop and apply new mathematical knowledge through problem solving.
- Reasoning: use reasoning skills to analyze a problem, reach a conclusion and justify or defend that conclusion.
- Visualization: understand mathematical concepts and make connections among them.