

The Right Angle

Shauna Boyce

Learning Technologies Branch

The Learning Technologies Branch (LTB) is responsible for providing leadership and consultation in identifying, developing, implementing and evaluating effective distance learning strategies and techniques in Alberta schools. Recently, LTB has developed many secondary and elementary mathematics resources.

Secondary Mathematics Resources

The following print resources for secondary mathematics have been developed by LTB and are available from the Learning Resources Centre (LRC):

- *Mathematics 7 Student Pack* (1996) (Product #311069)
- *Mathematics 8 Student Pack* (1997) (Product #349812)
- *Mathematics 9 Student Pack* (1997) (Product #348103)
- *Mathematics 10 Preparation Student Pack* (2000) (Product #411322)
- *Applied Mathematics 10 Student Module Pack* (2000) (Product #434978)
- *Applied Mathematics 10b (Bridging Course)* (2000) (Product #435398)
- *Pure Mathematics 10 Student Module Pack* (1999) (Product #434358)
- *Pure Mathematics 10b (Bridging Course)* (1998) (Product #407644)
- *Pure Mathematics 20 Students Package* (1999) (Product #398265)
- *Pure Mathematics 20b (Bridging Course)* (1999) (Product #407652)
- *Pure Mathematics 30 Student Module Pack* (2000) (Product #434738)
- *Mathematics 31 Student Pack* (1995) (Product #296740)

The following electronic resources have been developed by LTB and are available from LRC:

- *Pure Mathematics 30 Multimedia Segments* (CD-ROM v.1.0, Windows/Mac) (2000) (Product #430843)
- *Applied Mathematics 10 Multimedia Segments* (CD-ROM v.1.0, Windows/Mac) (2000) (Product #431164)

- *Learning Technologies Branch LXR Test & Question Banks* (CD-ROM, Mac) (1999) (Product #400416) Note: This resource can be used for Mathematics 7, 8, 9 and 31.
- *Learning Technologies Branch LXR Test & Question Banks* (CD-ROM, Windows) (1999) (Product #400424) Note: This resource can be used for Mathematics 7, 8, 9 and 31.

LTB is currently developing print resources for Applied Mathematics 20, Applied Mathematics 20b and Applied Mathematics 30. As well, LTB is developing question banks for Applied Mathematics 10, 20 and 30.

Elementary Mathematics Resources

The following print resources for elementary mathematics have been developed by LTB and are available from LRC:

- *Mathematics Grade 1 Student Pack* (2000) (Product #427311)
- *Mathematics Grade 4 Student Pack* (2000) (Product #422288)

LTB is currently developing print resources for Mathematics 2, 5 and 6.

For more information, visit our website at www.learning.gov.ab.ca/ltb/.

Learner Assessment Branch

Diploma Examinations

Diploma examinations in four math courses will be available in June. Mathematics 33, Pure Mathematics 30 and Applied Mathematics 30 will be released exams, but Mathematics 30 (old) will be secured. All four courses will have diploma examinations in August, also. Because Applied Mathematics 30 and Pure Mathematics 30 are pilot exams, they are worth 20 percent of a student's final mark. Please note that the Mathematics 30 (old) diploma exams are available only to students who are repeating the course or who have been granted special permission. A request for special status must be made in writing to Raja Panwar, Director, Curriculum Branch, Alberta Learning, 6th Floor East Tower, Devonian Building, 11160 Jasper Avenue NW,

Edmonton T5K 0L2; fax (780) 422-3745, e-mail Raja.Panwar@gov.ab.ca. The projects related to the diploma examinations for Pure Mathematics 30 and Applied Mathematics 30 are available on the Alberta Learning website at www.learning.gov.ab.ca/k_12/testing/diploma/projects/default.asp. Teachers and students can also find the projects and corresponding sample solutions from the first semester at this site.

Calculator Policy

The list of approved calculators and instructions for clearing calculators can be found at www.learning.gov.ab.ca/k_12/testing/diploma/bulletins/default.asp. Students writing the Applied Mathematics 30 and the Pure Mathematics 30 diploma exams will require a graphing calculator from the list of approved calculators. Students writing Mathematics 33 or 30 exams should follow the same guidelines as students writing a science diploma examination. That is, they may use a scientific calculator or a graphing calculator approved by Alberta

Learning. All information stored in programmable or para-metric memory must be cleared before writing the examination.

Diploma Examination Information Bulletins

These bulletins provide students and teachers with information about the diploma examinations scheduled for the 2000–2001 school year. They include the blueprints for the examinations, the scoring criteria for the 2000–2001 school year, suggestions for students about writing the examinations, descriptions of the standards for the courses and examinations, and examples of students' responses.

Revisions to the information bulletins for Applied Mathematics 30 and Pure Mathematics 30 are under way and will include changes to curriculum standards and the example questions. The new information bulletins for the 2001–2002 school year, which will include examples of questions that have been validated by both teachers and students, will be posted on our website soon.

Mr. Jones was philosophical about losing money. "I have as many pennies as I had dollars before, but half as many dollars as I had pennies before, and half of my money is gone. Can you tell me how much money I have now?"
