

# The Right Angle

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## Student Evaluation News

The Grades 3, 6 and 9 Mathematics Information Bulletins for the 1999–2000 school year are available at Student Evaluation's website: <http://ednet.edc.gov.ab.ca/studenteval/>. This website should be checked regularly for new information.

Direct questions or comments regarding the bulletins to Terry Gamble, Grade 3 math assessment specialist, at [tgamble@edc.gov.ab.ca](mailto:tgamble@edc.gov.ab.ca) or Daryl M. J. Chichak, Grades 6 and 9 math assessment specialist, at [dchichak@edc.gov.ab.ca](mailto:dchichak@edc.gov.ab.ca).

## Implementation of Pure and Applied Math 30 Examinations

Exams in Pure and Applied Math 30 will be offered beginning in the 2000–2001 school year. This is a mandatory implementation year for Pure Math 30 and an optional implementation year for Applied Math 30. Because of the implementation schedules, the exams in Pure and Applied Math 30 for the 2000–2001 school year will be weighted differently than other exams. FOR THESE EXAMS ONLY, the school-awarded mark will count for 80 percent and the diploma exam mark will count for 20 percent of the final blended mark. This weighting will continue in the 2001–2002 school year for APPLIED MATH 30 ONLY. Exams in all other subjects, including Math 30 and Math 33, will continue to be weighted at 50 percent for the school-awarded mark and 50 percent for the diploma-exam mark.

The new calculator policy goes into effect in September 2000 for ALL math and science exams.

There will be no November 2000 exam in Math 30 or Math 30 Pure. November exams in Math 30 Pure will commence in November 2001.

Exams for the old Math 30 program will be available in the 2000–2001 and 2001–2002 school years for students repeating the course or for students completing a course sequence.

Exams for the Math 33 program will be available to all students in the 2000–2001 and 2001–2002 school years because these are optional implementation years for Applied Math 30. In the 2002–2003 school year, Math 33 exams will be available only to students repeating the course or completing course sequences.

For further information on mathematics diploma examinations, see the implementation schedule on page 9.

The standards for Math 30 Pure and Applied have been reviewed by many teachers throughout the province and are now in final draft form. The bulletins for these courses should be available soon.

Student Evaluation Branch staff have been giving presentations through the regional consortia across the province. These presentations have focused on the format and standards for the new diploma exams in Pure and Applied Math 30.

## Keystrokes Required for Clearing Approved Calculators

On September 1, 2000, the new Alberta Learning Calculator Policy will come into effect. The following information is provided to help familiarize students, teachers and presiding examiners with the procedures involved in clearing all calculator memories.

It is not required that calculators be cleared according to these procedures for the January, April, June or August 2000 diploma examinations.

Using the methods on page 10 to clear calculators for these examinations will result in the erasure of programs that are allowed under the Calculator Policy for the 1999–2000 school year, that is, the "Conics" program.

### *Procedures to Follow Prior to Writing a Diploma Examination*

1. At the beginning of any mathematics or science diploma examination course, teachers must advise students of the types of calculators approved by Alberta Learning for use when writing diploma examinations.
2. Students must clear all programmable calculators, both graphing and scientific, that are brought into diploma examinations. All information that is stored in the programmable or parametric memory must be cleared.
3. Presiding examiners are responsible for ensuring that
  - all calculators operate in silent mode,
  - students do not share calculators or information contained within them,
  - calculator cases are stored on the floor throughout the examination and
  - all examination rules are followed.

Note 1: If you have problems with any of the clearing techniques, please contact the Mathematics/Science Diploma Examination Unit of Student Evaluation at 780-427-0010 (toll-free 310-0000), fax 780-422-4200 or e-mail [cmccabe@edc.gov.ab.ca](mailto:cmccabe@edc.gov.ab.ca).

Note 2: Resetting calculators may result in altering the calculator mode settings. Please remember to check the mode settings before proceeding with the diploma examination.

Note 3: Programs downloaded from the Web are not allowed on the calculators used during diploma examinations and will be erased by these procedures.

Note 4: The memory values given on the next pages refer to memory expected to be available as a factory setting. The values available in student calculators should match these values when the calculator has been reset. If the values in the student calculators do not match these values, then the calculators should be reset a second time. If this fails to change the values, then the calculator should not be used on the examination.

## Language Services Branch News

There has been early implementation of Applied Math 10 and Pure Math 20 during the second semester of the 1999–2000 school year. If you require further information on the French mathematics program, contact François Lizaire at 780-427-2940.

## Curriculum Standards Branch News

### Standards Documents

The Standards Documents for Applied Mathematics 10 and 20 and Pure Mathematics 10 and 20 are available at Alberta Learning's website: <http://ednet.edc.gov.ab.ca>.

### Distance Learning Information

The following junior and senior high school distance learning materials are available from the Learning Resources Distributing Centre (LRDC) for distance learning and regular classroom use:

- Mathematics 7 (LRDC Product #311069): This package has seven modules with accompanying assignment booklets. No textbook is required to complete the course, but students need a scientific calculator and two videos (LRDC Product #313495 and 313502). Note: The Mathematics 7 Learning Facilitator's Manual (LRDC Product #311035) includes the answers for marking the assignments for this course.

- Mathematics 8 (LRDC Product #349812): This package has six modules with accompanying assignment booklets. No textbook is required to complete the course, but students need a scientific calculator and two videos (LRDC Product #356883 and 356891). Note: The Mathematics 8 Learning Facilitator's Manual (LRDC Product #349838) includes the answers for marking the assignments for this course.
- Mathematics 9 (LRDC Product #348103): This package has six modules with accompanying assignment booklets. No textbook is required to complete the course, but students need a scientific calculator and one video (LRDC Product #356908). Note: The Mathematics 9 Learning Facilitator's Manual (LRDC Product #348111) includes the answers for marking the assignments for this course.
- Pure Mathematics 10 (LRDC Product #381468): This package has five modules with accompanying assignment booklets. The *Mathpower 10* textbook and a graphing calculator are required to complete the course. Note: The Pure Mathematics 10 Learning Facilitator's Manual (LRDC Product #383472) includes the answers for marking the assignments for this course.
- Pure Mathematics 20 (LRDC Product #398265): This package has six modules with accompanying assignment booklets. The *Mathpower 11* textbook and a graphing calculator are required to complete the course. The Pure Mathematics 20 Learning Facilitator's Manual (LRDC #389257) includes the answers for marking the assignments for this course.
- Pure Mathematics 10b (LRDC Product #407644) Interim Bridging Course (3 credits): This package includes facilitator's cover package, student cover package with parts of Module 1 of Pure Math 10, Modules 3 and 4 of Pure Math 10 with accompanying assignment booklets. The *Mathpower 10* textbook and a graphing calculator are required to complete this course. Note: The Pure Mathematics 10 Learning Facilitator's Manual LRDC #383472 includes the answers for marking this material.
- Pure Mathematics 20b (LRDC Product #407652) Interim Bridging Course (5 credits): This package includes facilitator's cover package; student cover package with parts of Module 1 of Pure Math 10; and parts of Module 2 of Pure Math 20; Modules 3 and 4 of Pure Math 10 with accompanying assignment booklets; and Modules 3, 4, 5, and 6 of Pure Math 20 with accompanying assignment booklets. The *Mathpower 10* and *Mathpower 11*

textbooks and a graphing calculator are required to complete this course. Note: The Pure Mathematics 10 Learning Facilitator's Manual (LRDC #383472) and Pure Mathematics 20 Learning Facilitator's Manual (LRDC #389257) may be used to mark this material.

The following courses will be available for the fall semester (the first two courses will be available in a split shipment. Package A will be available by August 15, 2000; package B will be available by October 15):

- Pure Mathematics 30: This package will have seven modules with accompanying assignment booklets. Students will require the *Mathpower 12* textbook and a graphing calculator.

- Applied Mathematics 10: This package will have seven modules with accompanying assignment booklets. Students will require the *Addison Wesley Applied Mathematics 10 Source Book*, a graphing calculator, a micrometer (LRDC Product #394643) and a vernier caliper (LRDC Product #394635).
- Mathematics Preparation 10: This package will have five modules with accompanying assignment booklets. No textbook is required, but students will need a scientific calculator. Note: This five-module course can be offered for 5 credits; alternatively, individual modules may be offered for 1 credit each.

For further information, call Linda Chase at 780-674-5350, ext. 138.

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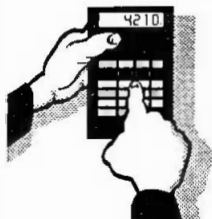
### *Implementation Schedule for Mathematics Diploma Examinations 1999–2003*

School Year	Math 30 (Old)	Math 30 Pure	Math 33 (Old)	Math 30 Applied
<b>1999–2000</b>	No Field Tests		Field Tests	
Nov–99	Dip (Eng/Fr)—S			
Jan–00	Dip (Eng/Fr)—R		Dip (Eng/Fr)—R	
Jun–00	Dip (Eng/Fr)—R		Dip (Eng/Fr)—R	
Aug–00	Dip (Eng/Fr)—S		Dip (Eng/Fr)—S	
<b>2000–2001</b>	No Field Tests	Field Tests	No Field Tests	Field Tests
Nov–00	No Diploma Exam	No Diploma Exam		
Jan–01	Dip (Eng/Fr)—S	Pilot Dip (Eng) 20%—R	Dip (Eng/Fr)—R	Pilot Dip (Eng) 20%—R
Jun–01	Dip (Eng/Fr)—S	Pilot Dip (Eng/Fr) 20%—R	Dip (Eng/Fr)—R	Pilot Dip (Eng) 20%—R
Aug–01	Dip (Eng/Fr)—S	Pilot Dip (Eng/Fr) 20%—S	Dip (Eng/Fr)—S	Pilot Dip (Eng) 20%—S
<b>2001–2002</b>	No Field Tests	Field Tests	No Field Tests	Field Tests
Nov–01	No Diploma Exam	Dip (Eng/Fr)—S		
Jan–02	Dip (Eng/Fr)—S	Dip (Eng/Fr)—R	Dip (Eng/Fr)—S	Pilot Dip (Eng/Fr) 20%—R
Jun–02	Dip (Eng/Fr)—S	Dip (Eng/Fr)—R	Dip (Eng/Fr)—S	Pilot Dip (Eng/Fr) 20%—R
Aug–02	Dip (Eng/Fr)—S	Dip (Eng/Fr)—S	Dip (Eng/Fr)—S	Pilot Dip (Eng/Fr) 20%—S
<b>2002–2003</b>		Field Tests	No Field Tests	Field Tests
Nov–02		Dip (Eng/Fr)—S		
Jan–03		Dip (Eng/Fr)—R	Dip (Eng/Fr)—S	Dip (Eng/Fr)—R
Jun–03		Dip (Eng/Fr)—R	Dip (Eng/Fr)—S	Dip (Eng/Fr)—R
Aug–03		Dip (Eng/Fr)—S	Dip (Eng/Fr)—S	Dip (Eng/Fr)—S

**Key**

- R = Examination released to educators, students and the general public after the administration is complete
- S = Examination secured; not released to educators, students or the general public after the administration is complete
- Eng = Examination available only in English
- Eng/Fr = Examination available in both English and French
- Pilot = Pilot examination worth 20 percent and school-awarded mark worth 80 percent of the final mark

# Calculator Clearing Techniques



Casio	Memory Remaining
<b>Casio 9700</b> Go to Menu Cursor to Reset EXE (All memory) F1 (Yes-Reset All)	Menu 24 000 Bytes available EXE Clear Shift MDISP(CAPA)
<b>Casio 9800</b> Go to Menu Options EXE (Memory) (Reset) EXE (Reset) F1 (Yes-Reset All)	Menu 24 000 Bytes available EXE Clear Shift MDISP(CAPA)
<b>Casio 9850</b> Go to Menu ALPHA E (Memory) ⇒ (Reset) EXE	Menu 30677 Alpha E EXE Check usage
<b>Casio CFX-9850G</b> Go to Menu ALPHA E (Memory) ↓ (Reset) EXE F1 (Yes-Reset All)	Menu 30677 Alpha E EXE Check usage

Sharp	Memory Remaining
<b>Sharp EL 9600 and 9600C</b> 2 <sup>nd</sup> XθTN (Option) log (Reset) 2 (All memory) CL (Clear all data) Note: There is also a reset switch on the back. (Use round tip of pen, press, then CL)	2 <sup>nd</sup> XθTN 18562 ↓

Texas Instruments	Memory Remaining
<b>TI 82</b> 2 <sup>nd</sup> + (Mem) 3 (Reset) 2 (Reset) Note: If, on clearing, the screen is blank, the contrast needs to be reset. To do this, use 2 <sup>nd</sup> ↑ both repeatedly.	2 <sup>nd</sup> + MEM FREE 28734 1
<b>TI 83</b> 2 <sup>nd</sup> + (Mem) 5 (Reset) 1 (All memory) 1 (Reset) Note: If, on clearing, the screen is blank, the contrast needs to be reset. To do this, use 2 <sup>nd</sup> ↑ both repeatedly.	2 <sup>nd</sup> + RAM 27118 1
<b>TI 83 Plus</b> 2 <sup>nd</sup> + (Mem) 7 (Reset) 1 (All RAM) Enter 2 (Reset) Note: If, on clearing, the screen is blank, the contrast needs to be reset. To do this, use 2 <sup>nd</sup> ↑ both repeatedly.	2 <sup>nd</sup> + RAM 24317 2 ARC 163840
<b>TI 86</b> 2 <sup>nd</sup> 3 (Mem menu) F3 (Reset) F1 (All) F4 (Yes) Note: If, on clearing, the screen is blank, the contrast needs to be reset. To do this, use 2 <sup>nd</sup> ↑ both repeatedly.	2 <sup>nd</sup> 3 MEM FREE 98226 F1
<b>TI 89</b> 2 <sup>nd</sup> 6 (Mem) F1 (ALL) 1 (Reset) Enter	2 <sup>nd</sup> 6 RAM 199154 ARC 393204
<b>TI 92</b> 2 <sup>nd</sup> 6 (Mem) F1 (Reset) 1 (All) Enter Note: If, on clearing, the screen is blank, the contrast needs to be reset. To do this, use ◊ (green) and + or - repeatedly.	2 <sup>nd</sup> 6 System 61064 Memory Free 70008