Grade 12 Mathematics Achievement Tests

# **Administration Manual**

2024/2025



Grade 12 mathematics achievement tests. Administration manual. 2024/2025

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This resource will also be available on the Manitoba Education and Early Childhood Learning website at

www.edu.gov.mb.ca/k12/assess/gr12/admin\_manuals/index.html.

#### Disponible en français.

Available in alternate formats upon request.

#### PREAMBLE

This manual is one of a series of documents which are available on the department's website at <u>www.edu.gov.mb.ca/k12/assess/gr12/index.html</u>.

- Policies and Procedures for Provincial Tests
- Grade 12 Mathematics Achievement Tests: Information Bulletin
- Grade 12 Mathematics Achievement Tests: Administration Manual
- Information for Local Marking

These documents prepare teachers and administrators for the administration of the Grade 12 provincial tests. Please use this administration manual in conjunction with the other documents in the series to gain a full understanding of the procedures associated with the testing program at Manitoba Education and Early Childhood Learning ("the department").

This manual must be read prior to administering the achievement test. The rules and guidelines included must be strictly observed to ensure the consistency of standards test administration.

Contact the Provincial Assessment Program Unit Telephone: 204-945-5011 Email: <u>assesseval@gov.mb.ca</u>

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#### **General Information**

The department develops the Grade 12 Mathematics Achievement Tests in collaboration with teachers from across the province. These provincial tests are based on the *Grades 9 to 12 Mathematics: Manitoba Curriculum Framework of Outcomes (2014)*. This document is available on the department's website at <a href="http://www.edu.gov.mb.ca/k12/cur/math/framework\_9-12/index.html">www.edu.gov.mb.ca/k12/cur/math/framework\_9-12/index.html</a>.

The provincial test is locally marked and counts for **20**% of each student's final grade in Applied Mathematics, Essential Mathematics, and Pre-Calculus Mathematics. Test results will be released to students according to local policy on the date designated by local jurisdictions.

For information regarding who is required to write provincial tests, refer to the *Policies and Procedures* manual.

#### All schools should receive the test materials by the following dates:

Semester 1: Thursday, January 16, 2025 Semester 2: Thursday, June 5, 2025

The number of booklets sent to each school is based on the registration information provided by the school.

The department supports local marking by

- providing marking guidelines
- collecting and scanning all Answer/Scoring Sheets or Scoring Sheets from jurisdictions to provide them with test result summaries
- re-marking a random sample of locally marked test booklets to provide feedback to school divisions and independent schools on their local marking
- providing financial support for local marking to provincially funded schools

#### Features of the test

Tests may include selected-response and constructed-response questions.

A *Formula Sheet* for each test is provided in the test booklets. Samples are also included in this manual (see Appendix A1, A2, or A3).

**Applied Mathematics and Essential Mathematics:** Students may bring one  $8\frac{1}{2}$ " × 11" sheet of paper (study sheet) that includes any information that the student has deemed important. The student may write on both sides of the paper and the information may be handwritten or typed (in any size font).

**Pre-Calculus Mathematics:** Students are not permitted to use a study sheet during the test.

#### Test-specific information

**Applied Mathematics:** The test will be administered in one three-hour session.

The following units will be assessed on the test:

- Relations and Functions
- Probability
- Financial Mathematics
- Design and Measurement
- Logical Reasoning

Essential Mathematics: The test will be administered in one two-hour session.

The following units will be assessed on the test:

- Home Finance
- Probability
- Vehicle Finance
- Geometry and Trigonometry
- Precision Measurement
- Statistics

**Pre-Calculus Mathematics:** The test will be administered in one three-hour session.

All units will be assessed on the test. The test consists of the two following parts:

- Booklet 1 consists of short-answer and long-answer questions where a scientific calculator is required for some questions and optional for others.
- Booklet 2 is distributed to students 45 minutes from the beginning of the test session and consists of multiple-choice, short-answer, and long-answer questions where a calculator cannot be used.

Students will have access to their calculators for the first 45 minutes of the test. After this time, calculators will be put away and *Booklet 2* will be distributed. Students may keep and continue working on *Booklet 1* for the remainder of the test session, but may not use their calculator once *Booklet 2* has been distributed. Students may not start working on *Booklet 2* until the first 45 minutes have elapsed.

#### Test schedule

The following tables summarize the schedule for the Grade 12 Mathematics Achievement Tests.

Date	Test	Preparation Time	Time Required for Test	Additional Time Allowed <sup>1</sup>
Tuesday, January 21, 2025	Applied Mathematics	15 minutes preparation and instructions	3 hours	30 minutes
Wednesday, January 22, 2025	Essential Mathematics	15 minutes preparation and instructions	2 hours	30 minutes
Thursday, January 23, 2025	Pre-Calculus Mathematics	15 minutes preparation and instructions	3 hours Part 1: 45 minutes, calculators permitted Part 2: 2 hours and 15 minutes, calculators not permitted	30 minutes

#### Semester 1

<sup>1</sup> Without providing an adaptation

Students must begin writing the Grade 12 Mathematics Achievement Tests between 8:30 a.m. and 10:00 a.m. on the above-mentioned dates.

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#### Semester 2

Date	Test	Preparation Time	Time Required for Test	Additional Time Allowed <sup>1</sup>
Thursday, June 12, 2025	Applied Mathematics	15 minutes preparation and instructions	3 hours	30 minutes
Wednesday, June 11, 2025	Essential Mathematics	15 minutes preparation and instructions	2 hours	30 minutes
Tuesday, June 10, 2025	Pre-Calculus Mathematics	15 minutes preparation and instructions	3 hours Part 1: 45 minutes, calculators permitted Part 2: 2 hours and 15 minutes, calculators not permitted	30 minutes

<sup>1</sup> Without providing an adaptation

Students must begin writing the Grade 12 Mathematics Achievement Tests between 8:30 a.m. and 10:00 a.m. on the above-mentioned dates.

#### **Policies for Provincial Tests**

#### Adaptations\*

Schools were asked to identify adaptations **at the time of student registration**. Adaptations must be recorded separately for each student for each test.

**Note:** An adaptation must be indicated for students who will require **more** than 30 minutes of additional time.

#### Exemptions\*

Schools were asked to report school-based exemptions **at the time of student registration**. Exemptions are not normally granted after test administration and are not granted based on poor performance alone.

<sup>\*</sup> Further information is available in the *Policies and Procedures* manual.

#### Confidentiality of test materials\*

Once test materials are in the school, the school principal is responsible for ensuring that they are kept secure until test administration and are only accessed by authorized personnel.

All shrink-wrapped test packages must **not** be opened until the day of the test.

Booklets must not be reproduced nor should information about the test be communicated in any way until the test administration has been completed.

*Marking Guides* are to remain sealed in a secure area until the test administration has been completed.

#### Student materials

Students may use the following materials during the test:

- pencil
- eraser
- bilingual dictionary (if required)
- 8<sup>1</sup>/<sub>2</sub>" × 11" study sheet (Applied Mathematics and Essential Mathematics)
- ruler (Applied Mathematics and Pre-Calculus Mathematics)
- electronic devices
  - Applied Mathematics: graphing calculator, computer, or other approved device
  - Essential Mathematics: calculator
  - Pre-Calculus Mathematics: scientific calculator—for the first 45 minutes of the test only

The following materials must **not** be used during the test:

- classroom notes, textbooks, and other such materials
- subject-related materials on display
- dictionaries (other than bilingual dictionaries)

Students must not exchange materials or information during the test.

**Note:** Electronic communication between students through phones, email, or file sharing during the test is **strictly prohibited**.

<sup>\*</sup> Further information is available in the *Policies and Procedures* manual.

**Applied Mathematics:** Access to Internet tools used in the everyday Applied Mathematics class, such as applets or a mortgage payment calculator, is allowed during the test. The same measure applies to student-created templates such as spreadsheets and programs downloaded to the graphing calculator during the school year. Additional technology such as mobile devices, tablets, or other personal devices are permitted within these guidelines and must be supervised during test administration.

Use of the Internet to access course notes, find definitions, or search for conceptual information about the course is **strictly prohibited** during the test and must be monitored by the supervising teacher.

Students may choose to print their responses from the computer. In this case, students are to indicate their booklet number and the question number on each page and remain seated at all times. The supervising teacher is responsible for distributing these printouts to students according to booklet number so that students can staple them in their booklets at the corresponding pages.

#### Students leaving the room

Students are expected to remain in the room for the first half of the test session. Students may leave before that time in exceptional circumstances such as illness.

Any student who must temporarily leave the room must be accompanied by a replacement supervisor. This practice ensures that the supervising teacher can remain in the test room with the students at all times.

#### Late arrivals\*

Late arrivals must be advised of the test rules before receiving their test materials. Ask them to read your copy of the Test-Taking Rules (see Appendix B1, B2, or B3).

Students who arrive late but within the first half of the normal duration of test administration are allowed to write the test. If appropriate, the supervising teacher may allow the student additional time corresponding to the amount by which the student was late.

Students who arrive after the halfway point of any test session are not permitted to write and are considered absent.

**Pre-Calculus Mathematics:** Late arrivals who are granted extra time may only use their calculators for the first 45 minutes.

<sup>\*</sup> Further information is available in the Policies and Procedures manual.

#### Student absences and changes to registration status\*

Students must write the applicable Grade 12 Mathematics Achievement Test during the scheduled date and time in order for it to count as a provincial test.

Students who do not complete the provincial test because of an unexcused absence or who formally refuse to write (by their own or by their parent(s)/ caregiver(s) choice) will receive a mark of zero (0%) on the provincial test.

Students who do not complete the provincial test for a reason listed in Appendix D will not have a provincial test result.

#### Violation of rules

The supervising teacher reads the *Test-Taking Rules* to students in advance of the test session (see Appendix B1, B2, or B3).

The supervising teacher documents any incidents of cheating, plagiarism, or any other violation of rules on the *Supervising Teacher Report* and on the *Irregular Test Booklet Report*. A copy of the *Irregular Test Booklet Report* can be found in the *Marking Guide* and in the *Information for Local Marking* manual. The following information must be included:

- the booklet number
- a description of the circumstances, including available evidence

Should a violation of rules occur, the student is permitted to complete the test. The consequences of a violation of rules are a local decision. However, cheating and plagiarism result in a provincial test mark of zero (0%).\*

#### Responding to student questions

The supervising teacher must not provide any leading comments during the test. No explanations, translations, rephrasing, or clarifying statements may be provided about the test content. However, clarification regarding test-taking rules and procedures can be provided.

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<sup>\*</sup> Further information is available in the *Policies and Procedures* manual.

#### Damaged or misprinted materials

Any suspected error in wording should not be communicated to students unless specific instructions are received from the department. Report any such errors by calling 204-945-5011 or, toll-free at 1-800-282-8069, extension 5011 (8:30 a.m. to 4:30 p.m.), or by sending an email to <u>assesseval@gov.mb.ca</u>.

Students will not be penalized for any error in printing or wording in the booklets. Teachers and local marking coordinators will be advised of any known errors as soon as possible. Any unused, damaged, or misprinted booklet(s) must be returned to the department with the reports and forms immediately after the test session.

#### Errors discovered on test date

If a damaged or misprinted booklet is discovered at the start of the test session

- the damaged or misprinted booklet is replaced with a new booklet
- "DAMAGED" is printed on the booklet cover and on the *Participation Form*

#### Errors discovered during test administration

If a damaged or misprinted booklet is discovered **during** the writing of the test

- the student receives a new booklet (the student keeps the damaged or misprinted booklet until the end of the session)
- the existing booklet number is crossed out on the new booklet and changed to the original booklet number so that all student responses are recorded under the original booklet number
- the student continues responding to test items in the new booklet
- the supervising teacher collects both booklets at the end of the test session and ensures that they are kept together by bundling them with an elastic band
- the supervising teacher indicates on the *Participation Form* that two booklets have been used for one student (see Appendix E)
- the damaged or misprinted booklet number is recorded on the *Supervising Teacher Report*

#### **Responsibilities of School Principals**

#### Note: Do not open the shrink-wrapped test packages until the day of the test.

#### As you complete the following steps, place a check mark on the corresponding line.

- 1. Ensure that all test materials have been received by placing a check mark beside each item on the *Packing List*.
- 2. Verify that the supervising teacher has checked off all steps in the following two sections: "Advance preparations (upon receipt of test materials)" and "Prior to the test session".
- 3. Contact the appropriate clerk listed on page ii of this manual, if test materials are not in the school by **the date listed on page 1** or if any items are missing.
- 4. Make sure that the test materials are stored in a secure area in the school and and that the *Marking Guides* remain sealed until the test administration has been completed. Only authorized personnel should have access to the locked test materials.
- 5. Do not open the shrink-wrapped test packages until the day of the test.
- 6. Provide the test materials to the supervising teacher on the morning of the test.
- 7. Distribute copies of the *Marking Guides* to the teachers after the test administration has been completed.
- 8. Advise the department in writing if the students are unable to write the test due to school closures or suspended school bus transportation services that occur on the test date. Further information is available in the *Policies and Procedures* manual.
- 9. Ensure that all test materials are accounted for after the test administration and until they are returned to the department.
- 10. Keep the *Sample Request List* secure until after marking is completed when marking is done at the classroom or school level.

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#### **Responsibilities of Supervising Teachers**

Note: Do not open the shrink-wrapped test packages until the day of the test.

As you complete the following steps, place a check mark on the corresponding line.

Advance preparations (upon receipt of test materials)

- 1. Ensure that
  - the number of booklets received equals the number requested by the school plus the additional four booklets. If additional test materials are needed, contact the appropriate clerk listed on page ii of this manual immediately
- a replacement supervisor is available throughout the entire test session in order to accompany students who must temporarily leave the room and to assist with the collection of student materials at the end of the session
  - arrangements have been made to accommodate students with requested adaptations
  - arrangements have been made as per school policy to ensure that students exempted from writing the test are accommodated in an alternative setting
- 2. Obtain a MET number for any student who was not registered or who did not have a MET number at the time of registration.
- \_\_\_\_\_ 3. Ensure that all subject-related materials have been removed from the walls and boards.
  - 4. Notify students of the
    - time, location, and duration of the test session
    - Test-Taking Rules (see Appendix B1, B2, or B3)
- 5. Ensure that extra supplies are available.
- 6. Photocopy the *Supervising Teacher Report* if extra copies are needed.
  - \_\_\_\_ 7. Review the sample forms in the appendices of this manual.

#### **Checklist of procedures for Applied Mathematics**

As you complete the following steps, place a check mark on the corresponding line.

#### Prior to test session

- \_\_\_\_\_ 1. Ensure that the following test materials are available:
  - Grade 12 Applied Mathematics Achievement Test: Student Booklet
  - Participation Form
  - *Demographic Data Forms* (for every student with a MET number registered to write the test)
    - Students without a Demographic Data Form
  - Supervising Teacher Report
    - Teacher Feedback Form
- \_\_\_\_\_ 2. Verify that computers and printers in the testing room are functioning as intended.
  - 3. Make a photocopy of the *Participation Form* if splitting a bundle of booklets between classrooms. Adjust each copy of the *Participation Form* to reflect the booklets being used in each classroom.

#### Beginning the test session

- \_\_\_\_\_ 1. Distribute the Grade 12 Applied Mathematics Achievement Test: Student Booklet.
- 2. Tell students that the *Participation Form* will be circulated while they are working so they can print their names beside their booklet number.
  - \_\_\_\_\_ 3. Read the *Test-Taking Rules* to students (see Appendix B1, B2, or B3).
    - \_ 4. Read the directions (found in the test booklet) to students.
      - 5. Remind students to
        - check over their work to ensure that all questions have been attempted
        - to show their work in the spaces provided in the booklet (and on extra pages provided, if required)
    - 6. Remind students using computers to remain seated as printouts will be distributed to them. The booklet number and question number must appear on each of these printouts and they must be stapled to the corresponding page of the test booklet. Students must also indicate in the response space of the question that the answer is on a printout.
      - 7. Instruct students to begin. Record the start time on the *Supervising Teacher Report*.

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#### During the test session

- \_ 1. Ensure that each student completes the *Participation Form*.
  - **Note:** The *Participation Form* is the only record connecting students' identities to their booklet.
- \_\_\_\_\_ 2. Verify that the name of each student on the *Class List* is recorded on the *Participation Form*.
- 3. Advise students of the amount of time remaining by writing it on the board halfway through the test session.
  - 4. Advise students when there are 30 minutes left to complete the test and remind them that an additional 30 minutes are available, if needed.

#### Ending the test session

- 1. **Record the time students finish writing the test on the** *Supervising Teacher Report.* Do not include any additional time.
- \_\_\_\_\_ 2. Ask students to submit their test booklet(s).
- 3. Note the circumstances on the *Supervising Teacher Report* if a student refuses to write or is present but completes no work.
- 4. Ensure that each student's booklet number matches the number on the *Demographic Data Form,* and the *Participation Form* as students submit their test materials.
- 5. Ensure that any printouts or extra pages are stapled to the appropriate pages.
- 6. Complete the *Participation Form* (see Appendix E).
- 7. Complete the *Demographic Data Forms* according to the instructions on the form (see Appendix F). Ensure that there is a booklet number or reason code for each student (see Appendix D).
  - Place all *Demographic Data Forms* in order by booklet number (not alphabetical order) in the labelled envelope provided.
  - Do not use elastic bands, staples, or paper clips on the *Demographic Data Forms* as they may damage the sheets. **Do not seal the envelope.**
- \_\_\_\_\_ 8. Complete the form *Students without a Demographic Data Form* according to the instructions on the form if necessary (see Appendix G).
- \_\_\_\_\_ 9. Stack the booklets in order by booklet number.
- 10. Make a copy of the *Participation Form* and *Supervising Teacher Report* to be retained by the school. If a centralized marking model is used, make an additional copy of each form and forward them to the local marking site.
  - 11. Return all booklets and other test-related materials to the **secure area** in the school until marking or until materials are forwarded to the local marking site.
- \_\_\_\_\_ 12. Send materials according to the instructions on the following pages.
- \_\_\_\_\_ 13. Obtain a copy of the *Marking Guide* and *Sample Request List* from the principal.

#### **Checklist of procedures for Essential Mathematics**

As you complete the following steps, place a check mark on the corresponding line.

#### Prior to test session

- \_\_\_\_\_ 1. Ensure that the following test materials are available:
  - Grade 12 Essential Mathematics Achievement Test: Student Booklet
  - Participation Form
  - Demographic Data Forms (for every student with a MET number registered to write the test)
    - Students without a Demographic Data Form
  - Supervising Teacher Report
  - Teacher Feedback Form
- 2. Make a photocopy of the *Participation Form* if splitting a bundle of booklets between classrooms. Adjust each copy of the *Participation Form* to reflect the booklets being used in each classroom.

#### Beginning the test session

- 1. Distribute the *Grade* 12 *Essential Mathematics Achievement Test: Student Booklet.*
- \_\_\_\_\_ 2. Tell students that the *Participation Form* will be circulated while they are working so they can print their names beside their booklet number.
- \_\_\_\_\_ 3. Read the *Test-Taking Rules* to students (see Appendix B1, B2, or B3).
  - 4. Read the directions (found in the test booklet) to students.
    - 5. Remind students to
      - check over their work to ensure that all questions have been attempted
      - to show their work in the spaces provided in the booklet (and on extra pages provided, if required)
    - 6. Instruct students to begin. Record the start time on the *Supervising Teacher Report*.

#### During the test session

- \_\_\_\_ 1. Ensure that each student completes the *Participation Form*.
  - **Note:** The *Participation Form* is the only record connecting students' identities to their booklet.
- 2. Verify that the name of each student on the *Class List* is recorded on the *Participation Form*.

- 3. Advise students of the amount of time remaining by writing it on the board halfway through the test session.
  - 4. Advise students when there are 30 minutes left to complete the test and remind them that an additional 30 minutes are available, if needed.

#### Ending the test session

- 1. **Record the time students finish writing the test on the** *Supervising Teacher Report.* Do not include any additional time.
- \_\_\_\_\_ 2. Ask students to submit their test booklet(s).
- 3. Note the circumstances on the *Supervising Teacher Report* if a student refuses to write or is present but completes no work.
- 4. Ensure that each student's booklet number matches the number on the *Demographic Data Form,* and the *Participation Form* as students submit their test materials.
- \_\_\_\_\_ 5. Complete the *Participation Form* (see Appendix E).
- 6. Complete the *Demographic Data Forms* according to the instructions on the form (see Appendix F). Ensure that there is a booklet number or reason code for each student (see Appendix D).
  - Place all *Demographic Data Forms* in order by booklet number (not alphabetical order) in the labelled envelope provided.
  - Do not use elastic bands, staples, or paper clips on the *Demographic Data Forms* as they may damage the sheets. **Do not seal the envelope.**
- 7. Complete the form *Students without a Demographic Data Form* according to the instructions on the form if necessary (see Appendix G).
- 8. Stack the booklets in order by booklet number.
- 9. Make a copy of the *Participation Form* and *Supervising Teacher Report* to be retained by the school. If a centralized marking model is used, make an additional copy of each form and forward them to the local marking site.
  - \_\_\_\_\_10. Return all booklets and other test-related materials to the secure area in the school until marking or until materials are forwarded to the local marking site.
- \_\_\_\_\_ 11. Send materials according to the instructions on the following pages.
- \_\_\_\_\_ 12. Obtain a copy of the *Marking Guide* and *Sample Request List* from the principal.

#### **Checklist of procedures for Pre-Calculus Mathematics**

As you complete the following steps, place a check mark on the corresponding line.

Prior to test session

- \_\_\_\_\_ 1. Ensure that the following test materials are available:
  - Grade 12 Pre-Calculus Mathematics Achievement Test: Booklet 1
  - Grade 12 Pre-Calculus Mathematics Achievement Test: Booklet 2
  - Participation Form
  - Demographic Data Forms (for every student with a MET number registered to write the test)
    - Students without a Demographic Data Form
    - Answer/Scoring Sheets
      - *Supervising Teacher Report*
      - Teacher Feedback Form
  - 2. Make a photocopy of the *Participation Form* if splitting a bundle of booklets between classrooms. Adjust each copy of the *Participation Form* to reflect the booklets being used in each classroom.

#### Beginning the test session

- \_\_\_\_\_ 1. Distribute the *Grade* 12 *Pre-Calculus Mathematics Achievement Test:* Booklet 1.
- \_\_\_\_\_ 2. Tell students that the *Participation Form* will be circulated while they are working so they can print their names beside their booklet number.
  - \_\_\_\_\_ 3. Read the *Test-Taking Rules* to students (see Appendix B1, B2, or B3).
  - 4. Read the directions (found in the test booklet) to students.
- \_\_\_\_\_ 5. Remind students to
  - check over their work to ensure that all questions have been attempted
  - to show their work in the spaces provided in the booklet (and on extra pages provided, if required)
  - 6. Instruct students to begin. Record the start time on the *Supervising Teacher Report*.

#### During the test session

- \_\_\_\_ 1. Ensure that each student completes the *Participation Form*.
  - **Note:** The *Participation Form* is the only record connecting students' identities to their booklet.
- 2. Verify that the name of each student on the *Class List* is recorded on the *Participation Form*.
- 3. Ask the students (after 45 minutes) to place their calculators on the floor for the remainder of the test session. Students retain and may continue working on *Booklet 1*; however, they may not use their calculators once *Booklet 2* has been distributed.
- 4. Distribute *Booklet* 2 and the *Answer/Scoring Sheets* as students continue working on *Booklet* 1.

Remind students to use the *Answer/Scoring Sheet* for responding to the multiplechoice questions.

- **Note:** The booklet number on the *Answer/Scoring Sheet, Booklet 1,* and *Booklet 2* must be identical for each student. Ask students to verify the booklet number.
- 5. Record the time that *Booklet* 2 was distributed on the *Supervising Teacher Report*.
- 6. Inform students that they have 2 hours and 15 minutes left to complete the test.
- 7. Advise students when there are 30 minutes left to complete the test and remind them that an additional 30 minutes are available, if needed.

#### Ending the test session

- 1. **Record the time students finish writing the test on the** *Supervising Teacher Report.* Do not include any additional time.
- \_\_\_\_\_ 2. Ask students to submit their test booklet(s).
- 3. Ask students to submit their *Answer/Scoring Sheets* and place them in the labelled envelope provided.
- 4. Note the circumstances on the *Supervising Teacher Report* if a student refuses to write or is present but completes no work.
- 5. Ensure that each student's booklet number matches the number on the *Answer/ Scoring Sheet, Demographic Data Form,* and the *Participation Form* as students submit their test materials.
  - \_\_\_\_ 6. Complete the *Participation Form* (see Appendix E).

7. Complete the *Demographic Data Forms* according to the instructions on the form (see Appendix F). Ensure that there is a booklet number or reason code for each student (see Appendix D). Place all Demographic Data Forms in order by booklet number (not alphabetical order) in the labelled envelope provided. Do not use elastic bands, staples, or paper clips on the *Demographic Data Forms* as they may damage the sheets. Do not seal the envelope. 8. Complete the form *Students without a Demographic Data Form* according to the instructions on the form if necessary (see Appendix G). Stack the booklets in order by booklet number. 9. 10. Make a copy of the *Participation Form* and *Supervising Teacher Report* to be retained by the school. If a centralized marking model is used, make an additional copy of each form and forward them to the local marking site. 11. Return all booklets and other test-related materials to the secure area in the school until marking or until materials are forwarded to the local marking site. 12. Send materials according to the instructions on the following pages. 13. Obtain a copy of the *Marking Guide* and *Sample Request List* from the principal.

#### Submitting materials (at the end of the test)

The following materials must be returned to the department immediately after the test:

- original Participation Form
- Demographic Data Forms (in envelope provided in order by booklet number)
- Students without a Demographic Data Form
- Supervising Teacher Report
- damaged or misprinted booklets

#### Semester 1

Test	Date Returned to Department	Date of Local Marking Training
Applied Mathematics	Tuesday, January 21, 2025	Wednesday, January 22, 2025
Essential Mathematics	Wednesday, January 22, 2025	Thursday, January 23, 2025
Pre-Calculus Mathematics	Thursday, January 23, 2025	Friday, January 24, 2025

#### Semester 2

Test	Date Returned to Department	Date of Local Marking Training
Applied Mathematics	Thursday, June 12, 2025	Friday, June 13, 2025
Essential Mathematics	Wednesday, June 11, 2025	Thursday, June 12, 2025
Pre-Calculus Mathematics	Tuesday, June 10, 2025	Wednesday, June 11, 2025

**Note:** Individuals attending a local marking training session on any of the above-mentioned dates may bring the previously mentioned documents to the session or send them by following the instructions on the following page.

Supervising teachers are responsible for bringing their copy of the *Marking Guide* to the local marking site.

#### Refer to Appendix H: Instructions for Sending Materials to the Department.

If a centralized marking model is used, package the following materials and forward them to the local marking site after the test session:

- used booklets
- Answer/Scoring Sheets or Scoring Sheets
- copy of the *Participation Form*
- copy of the Supervising Teacher Report
- *Sample Request List* (included with your marking package)

#### Submitting materials (after local marking)

When a centralized marking model is used, the **local marking coordinator** sends the materials to the department. When local marking is done at the classroom or school level, the **teacher** sends the materials to the department.

After centralized and local marking have been completed, prepare a package to be received by the department, Continuous Improvement Branch, 1567 Dublin Avenue, Winnipeg, no later than

Semester 1	Semester 2
Thursday, February 6, 2025	Thursday, June 26, 2025

This will ensure there is sufficient time for processing.

The package must include:

- Answer/Scoring Sheets or Scoring Sheets (in envelope provided)
- booklets requested by the department (including substitute booklets)
- Sample Request List (included with the marking package)
- Teacher Feedback Form

#### Refer to Appendix H: Instructions for Sending Materials to the Department.

Return all *Answer/Scoring Sheets* or *Scoring Sheets*. Payment will be made according to the number of students with a participation status of C or IU on the Participation Form and the number of *Answer/Scoring Sheets* or *Scoring Sheets* received by the department.

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# Appendices

#### Grade 12 Mathematics: Administration Manual (2024/2025)

<b>Relations and Functions</b>	Financial Mathematics	
y = ax + b	$t = \frac{72}{1}$	
$y = ax^2 + bx + c$	i	
$y = ax^3 + bx^2 + cx + d$	I = Prt	
$y = ab^x$	$A = p \left( \frac{1}{1 + r} \right)^{nt}$	
$y = a + b \ln(x)$	$A = P \begin{pmatrix} 1 + - \\ n \end{pmatrix}$	
$y = a\sin(bx+c) + d$	Net worth = Total assets – Total liabilities	
Probability	Debt-to-equity ratio (%) = $\frac{(\text{Total liabilities} - \text{Mortgage})}{(100 \text{ Mortgage})} \times 100$	
$P(A \cup B) = P(A) + P(B) - P(A \cap B)$	Net Worth	
$P(A \cap B) = P(A) \times P(B)$	Gross debt (Monthly Monthly Monthly payment taxes costs )	
$P(A \cap B) = P(A) \times P(B A)$	ratio (%) Gross monthly income	
$_{n}P_{r}=rac{n!}{(n-r)!}$	Rate of $A_{\text{rec}} = \frac{\begin{pmatrix} \text{Current value} & \text{Previous value} \\ \text{of portfolio} & \text{of portfolio} \end{pmatrix}}{\text{of portfolio}} \times 100$	
${}_{n}C_{r}=\frac{n!}{r!(n-r)!}$	return (%) Previous value of portfolio	
Design and Measurement		
Prism: Surface area = $Ph + 2B$	Pyramid: Surface area = $B + \frac{1}{2}Ps$	
volume = Bn	Volume = $\frac{1}{3}Bh$	
Cube: Surface area = $6l^2$	Sphere: Surface area = $4\pi r^2$	
$Volume = l^3$	Volume = $\frac{4}{3}\pi r^3$	
Rectangular prism: Surface area = 2	2lw + 2lh + 2wh	
Volume = <i>iwn</i>	Cylinder: Surface area = $2\pi r^2 + 2\pi rn$	
Triangular prism: Surtace area = bh	$+I(a+b+c)$ volume $-\pi I \pi$	
Volume = $\frac{1}{2}bhl$	Cone: Surface area = $\pi r^2 + \pi rs$	
Square-based pyramid: Surface are	$Volume = \frac{1}{3}\pi r^2 h$	
Volume = 1	$\frac{1}{3}b^2h$	

Appendix A1: Formula Sheet, Applied Mathematics

#### Appendix A2: Formula Sheet, Essential Mathematics

Name of Formula	Formula	Details
Percentile Rank ( <i>PR</i> )	$PR = \frac{b}{n} \times 100$	<ul> <li>b = number of raw scores</li> <li>below the given score</li> <li>n = total number of raw</li> <li>scores</li> </ul>
Simple Interest (I)	I = Prt	P = principal r = annual interest rate t = time in years
Education Tax or Municipal Tax	Tax = Portioned assessment $\times \frac{\text{mill rate}}{1000}$	
Gross Debt Service Ratio (GDSR)	$GDSR = \frac{\begin{pmatrix} Monthly & Monthly & Monthly \\ mortgage + property + heating \\ payment & taxes & costs \end{pmatrix}}{Gross monthly income}$	
Fuel Economy in L / 100 km ( <i>FE</i> )	$\frac{FE}{100} = \frac{\text{Fuel used in litres}}{\text{Distance travelled in km}}$	
Sum of Interior Angles of Polygons ( <i>S</i> )	S = 180° (n - 2)	<i>n</i> = number of sides
Measure of One Interior Angle of a Regular Polygon	Interior angle = $\frac{180^{\circ}(n-2)}{n}$	<i>n</i> = number of sides
Measure of One Exterior Angle of a Regular Polygon	Exterior angle = $\frac{360^{\circ}}{n}$	<i>n</i> = number of sides
Central Angle of Regular Polygons ( <i>C</i> )	$C = \frac{360^{\circ}}{n}$	<i>n</i> = number of sides
Number of Diagonals in a Polygon ( <i>D</i> )	$D=\frac{n(n-3)}{2}$	<i>n</i> = number of sides

Additional formulas on next page.

#### Appendix A2: Formula Sheet, Essential Mathematics (continued)

Trigonometric Laws			
Sine Law $ \frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c} $ $ \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} $		Cosine Law	$a^{2} = b^{2} + c^{2} - (2bc \cos A)$ $\cos A = \frac{b^{2} + c^{2} - a^{2}}{2bc}$
	Tax F	Rates	
Provincial Retail Sales Tax (RST 7%	Г)	Federal Goods and Services Tax (GST) 5%	
Taxes on Vehicle Purchases			
		RST	GST
Buying New	Yes		Yes
Buying Used from a Dealership	Yes		Yes
Buying Used Privately	Yes, calculated on greater of book value or purchase price		No
Safety	No		Yes
Materials and Labour	Yes		Yes
Lien Search		No	No

Note: Provincial sales tax (PST) is now called retail sales tax (RST).

Note: Since July 1, 2020, RST is no longer added to home insurance.

Appendix A3: Formula Sheet, Pre-Calculus Mathematics

 $s = \theta r$  $\log (MM) - \log M + \log N$  $\sin^2\theta + \cos^2\theta = 1$  $\tan^2 \theta + 1 = \sec^2 \theta$  $1 + \cot^2 \theta = \csc^2 \theta$  $\sin(\alpha - \beta) = \sin\alpha \cos\beta - \cos\alpha \sin\beta$  $\cos(\alpha - \beta) = \cos\alpha \cos\beta + \sin\alpha \sin\beta$  $\tan(\alpha - \beta) = \frac{\tan\alpha - \tan\beta}{1 + \tan\alpha \tan\beta}$  $\sin(\alpha + \beta) = \sin \alpha \cos \beta + \cos \alpha \sin \beta$  $\cos(\alpha + \beta) = \cos\alpha \cos\beta - \sin\alpha \sin\beta$  $\tan(\alpha+\beta) = \frac{\tan\alpha+\tan\beta}{1-\tan\alpha\tan\beta}$  $\sin 2\alpha = 2\sin \alpha \cos \alpha$  $\cos 2\alpha = \cos^2 \alpha - \sin^2 \alpha$  $\cos 2\alpha = 1 - 2\sin^2 \alpha$  $\cos 2\alpha = 2\cos^2 \alpha - 1$  $\tan 2\alpha = \frac{2\tan\alpha}{1-\tan^2\alpha}$ 

$$\log_{a}(MN) = \log_{a}M + \log_{a}N$$
$$\log_{a}\left(\frac{M}{N}\right) = \log_{a}M - \log_{a}N$$
$$\log_{a}\left(M^{n}\right) = n\log_{a}M$$
$$P(n,r) \text{ or } {}_{n}P_{r} = \frac{n!}{(n-r)!}$$
$$C(n,r) \text{ or } {}_{n}C_{r} = \frac{n!}{r!(n-r)!}$$
$$t_{k+1} = {}_{n}C_{k}a^{n-k}b^{k}$$
Given  $ax^{2} + bx + c = 0$ ,
$$x = \frac{-b \pm \sqrt{b^{2} - 4ac}}{2a}$$

#### Appendix B1: Test-Taking Rules, Applied Mathematics

## The supervising teacher is expected to read these rules to students at the beginning of the first test session:

- During the test session, do not proceed until instructed to do so.
- If you receive a damaged or misprinted booklet, raise your hand and I will give you a new one.
- You are expected to remain in the room for the first half of the test session. You may leave before that time in exceptional circumstances, such as illness. Should you need to temporarily leave the room, you will be accompanied by a teacher.
- To write the test you should only have the test materials, a pencil, an eraser, a bilingual dictionary (if required), an 8<sup>1</sup>/<sub>2</sub>" × 11" study sheet, a ruler, and a graphing calculator, computer, or other approved device. No other materials are permitted. Do not exchange test materials.
- You will **not** receive assistance from, nor give assistance to, another student. If you require something during the test, raise your hand.
- During the test, I can only help you with the directions, not the test questions.
- Do **not** identify yourself, your school, teacher, or town in your booklet.
- You may **not** discard any materials. The test booklet, with the exception of the perforated pages, must remain intact.
- You may **not** leave the room with any materials pertaining to the test, with the exception of the study sheet.
- Rough calculations may be done in your booklet on blank pages. No marks will be awarded for work done on these pages.
- Remember to attempt all multiple-choice questions. Marks will not be deducted for incorrect responses. Indicate your answer by circling directly in the test booklet.
- If you need more space to answer a question, extra pages may be provided. Write your booklet number and the question number on any extra page(s) used and staple the additional page(s) into the booklet where your answer begins.
- Electronic communication between students through phones, email, or file sharing during the test is strictly prohibited. Cheating will result in a provincial test mark of zero (0%).
- During test administration, you may consult the test rules on page i of your booklet.

## Only read the test-taking rules on the next page if an approved device is used during the test administration.

#### Appendix B1: Test-Taking Rules, Applied Mathematics (continued)

- You may access the Internet to use applets or a mortgage payment calculator. Use of the Internet to access other content, including but not limited to course notes, definitions, or course-related conceptual information is strictly prohibited during the test.
- For constructed-response questions, you may print out diagrams from the computer or your calculator where applicable. Write your booklet number and the question number on every printout. Remain seated and I will bring you your printouts. Indicate in the response space of the question that the answer is on a printout and staple the printout to the appropriate page.
- Provide clear explanations or justifications where applicable.
  - If you use a software program or a Web applet, indicate all your input values and print or copy the screen showing the answers.
  - If you use a spreadsheet, print a copy of the answers.

#### Appendix B2: Test-Taking Rules, Essential Mathematics

## The supervising teacher is expected to read the following rules to students at the beginning of the test.

- During the test session, do not proceed until instructed to do so.
- If you receive a damaged or misprinted booklet, raise your hand and I will give you a new one.
- You are expected to remain in the room for the first half of the test session. You may leave before that time in exceptional circumstances, such as illness. Should you need to temporarily leave the room, you will be accompanied by a teacher.
- To write the test you should only have the test materials, a pencil, an eraser, a bilingual dictionary (if required), an 8<sup>1</sup>/<sub>2</sub>" × 11" study sheet, and a calculator. No other materials are permitted. Do not exchange test materials.
- You will **not** receive assistance from, nor give assistance to, another student. If you require something during the test, raise your hand.
- During the test, I can only help you with the directions, not the test questions.
- Do **not** identify yourself, your school, teacher, or town in your booklet.
- You may not discard any materials. The test booklet, with the exception of the perforated pages, must remain intact.
- You may **not** leave the room with any materials pertaining to the test, with the exception of the study sheet.
- Rough calculations may be done in your booklet on blank pages. No marks will be awarded for work done on these pages.
- Remember to attempt all multiple-choice questions. Marks will not be deducted for incorrect responses. Indicate your answer directly in the test booklet.
- If you need more space to answer a question, extra pages may be provided. Write your booklet number and the question number on any extra page(s) used and staple the additional page(s) into the booklet where your answer begins.
- Electronic communication between students through phones, email, or file sharing during the test is strictly prohibited. Cheating will result in a provincial test mark of zero (0%).
- During test administration, you may consult the test rules on page i of your booklet.

#### Appendix B3: Test-Taking Rules, Pre-Calculus Mathematics

## The supervising teacher is expected to read the following rules to students at the beginning of the test.

- During the test session, do not proceed until instructed to do so.
- If you receive a damaged or misprinted booklet, raise your hand and I will give you a new one.
- You are expected to remain in the room for the first half of the test session. You may leave before that time in exceptional circumstances, such as illness. Should you need to temporarily leave the room, you will be accompanied by a teacher.
- To write the test you should only have the test materials, a pencil, an eraser, a bilingual dictionary (if required), a ruler, and a scientific calculator—for the first 45 minutes only. No other materials are permitted. Do not exchange test materials.
- When *Booklet 2* is distributed, you will also receive an *Answer/Scoring Sheet* to record your answers to the multiple-choice questions. Make sure that the booklet number on *Booklet 1* and *Booklet 2* matches the number on your *Answer/Scoring Sheet*.
- You may keep and continue working on *Booklet 1* for the entire test session, but you may not use your calculator once *Booklet 2* has been distributed. You may not start *Booklet 2* until the first 45 minutes have elapsed.
- You will **not** receive assistance from, nor give assistance to, another student. If you require something during the test, raise your hand.
- During the test, I can only help you with the directions, not the test questions.
- Do **not** identify yourself, your school, teacher, or town in your booklets.
- You may **not** discard any materials. The test booklets, with the exception of the perforated pages, must remain intact.
- You may not leave the room with any materials pertaining to the test.
- Rough calculations may be done in your booklets on blank pages. No marks will be awarded for work done on these pages.
- Remember to attempt all multiple-choice questions. Marks will not be deducted for incorrect responses. Use the *Answer/Scoring Sheet* when responding to multiple-choice questions.
- If you need more space to answer a question, extra pages may be provided. Write your booklet number and the question number on any extra page(s) used and staple the additional page(s) into the booklet where your answer begins.
- Electronic communication between students through phones, email, or file sharing during the test is strictly prohibited. Cheating will result in a provincial test mark of zero (0%).
- During test administration, you may consult the test rules on page i of your booklet.

#### Appendix C: Data Collection for Provincial Tests

The *Participation Form* and the *Demographic Data Form* indicate the student's status in terms of participation in the test and whether or not the test counts as a provincial test.

The information provided on the *Demographic Data Form* and on the form *Students without a Demographic Data Form* **must** be consistent with the information provided on the *Participation Form*.

#### **Participation Form**

On the *Participation Form*, a booklet number is assigned to each student expected to participate. At the end of the test, the teacher records the participation status (C, IU, or IE) for each student according to the following:

Test counts as a provincial test (test booklets locally marked)		Test does not count as a provincial test (test booklets not marked)
C = Complete	IU = Incomplete Unexcused	IE = Incomplete Excused
The student was present for all parts of the test.	The student missed all or part of the test due to an unexcused absence; a mark of zero (0%) applies to the missed parts.	The student missed all or part of the test due to an excused absence or did not write due to - excused absence - test deferral - registration error - withdrawal from course - exemption

#### Demographic Data Form

One of the following sections of the *Demographic Data Form* is to be completed when each student's participation status for the test is known.

**Booklet Number:** This section is completed only if the test is to **count** as a provincial test (participation status C or IU).

#### OR

**Reason Code:** This section is completed only if the test will **not count** as a provincial test (participation status IE). The reason codes are listed in Appendix C.

If a student that is expected to participate does not have a *Demographic Data Form* (e.g., student had no MET number at the time of registration for the test or student was a late registration to the course), complete the form *Students without a Demographic Data Form*.

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#### Appendix D: Reason Codes

The following codes are to be used on a student's *Demographic Data Form* or on the form *Students without a Demographic Data Form* only if the test will not count as a provincial test.\*

Reason	Reason Code
Excused Absence	
(e.g., student illness, severe weather [cancellation/school closure], family emergency, or accident)	200
<b>Note:</b> This reason is not intended for students attending sanctioned out-of-school events (alternate writing sites).	
Test Deferred	
No course credit granted at this time (i.e., continuing course/program next year/ semester).	040
Registered in Error	
The student should not have been registered to write (e.g., registered for semester 1 in error, should have been registered for semester 2).	210
Withdrawn from Course—No Course Credit Granted	
(e.g., student left the school, was expelled, or other unforeseen circumstance)	220
Program Schedule—Not Compatible with the Testing Schedule	
The student was registered for the test but completed the course well before (e.g., mid-semester) the test administration period.	230
<b>Note:</b> This reason is primarily used for continuous intake or alternative programming situations.	

In the case of an **unexcused** absence or refusal to write, no reason codes apply—a booklet number is assigned to the student and the test counts as a provincial test. Any work the student has done is marked and zero (0%) is given for the missed parts of the test.

\* Further information is available in the *Policies and Procedures* manual.

#### Appendix E: Sample Participation Form

Page 1 of \_\_\_\_\_

Somewhere School 9999 (0000)

#### **PARTICIPATION FORM**

#### Grade 12 Provincial Test

- 1. Assign a booklet number to each student expected to participate.
- 2. At the end of the test administration, indicate each student's participation status as one of the following (see the *Administration Manual* for details):

**C** = Complete (test counts as a provincial test)

- **IU** = Incomplete Unexcused (test counts as a provincial test)
- **IE** = Incomplete Excused (test does **not** count as a provincial test)

Booklet Number	Student Name (please print)	<b>Program</b> Eng/Imm/Fr	Participation Status (C, IU, or IE)	For Teacher Use (records, notes)
10001	Sandra Wong	Eng	С	
10002	Shelley Carrière	Imm	С	
10003	Damaged			
10004	Jason Chu		IE	illness
10005	Manuel Sousa	Fr	С	
10006	Bonnie Walters		IU	absent no reason
<del>10007</del>	Used with 10005 (damaged)			
10008	Julie Curtis		IU	suspended
10009	Unused			
<del>10010</del>	Used in another classroom			

John Ormiston

jormiston@email.com

Supervising Teacher's Name (*please print*) Email Address

Please retain a copy of this form for your records. A copy is required to link locally marked test booklets with student names.

#### Appendix F: Sample Demographic Data Form



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Somewhere School (0000) 6666 Reason Code Provide a booklet number for students whose participation status is "C" (Complete) or "IU" (Incomplete Unexcused), OR provide a reason code 200 ٩ **N** Page Booklet Number 10001 Complete this form only if a student is expected to participate and does not have a *Demographic Data Form*. Immersion Program English \*Inquiries regarding MET numbers may be made to the Education Administration Services Branch at 1-833-227-1375. 21-Feb-20005 07-Sep-2005 Date of Birth STUDENTS WITHOUT A DEMOGRAPHIC DATA FORM for the students whose participation status is "**IE**" (Incomplete Excused). **First Name** Sandra Daniel Last Name Wong Grade 12 Provincial Test Smith 101-101-101 MET Number\* assigned not yet

# If additional forms are required, copy as necessary.

# Appendix G: Sample Students without a Demographic Data Form

#### Appendix H: Instructions for Sending Materials to the Department Using Canada Post's On-Demand Pick-Up Service

To simplify the process of returning materials, each school has been provided with pre-paid Xpresspost labels. Follow the steps below to use Canada Post's On-Demand Pick-Up service and ensure your package is sent correctly and efficiently.

#### Steps to send materials

- 1. Record the weight of the package(s).
- 2. Call Canada Post at 1-888-550-6333.
  - Select your preferred language.
  - Press 2 for Business.
- 3. Enter the customer number found on the Xpresspost Flexipack envelope, under the barcode. The first seven digits are the customer number.

CANADA POST POSTES CANADA	Return Retour	((( 1		
Xpresspost <sup>™™⊂</sup>		YWG		
MB EDUCATION AND EARL' GR 12 MATHEMATICS 1567 DUBLIN AVE WINNIPEG MB R3E 3J5	Y CHILDHO	DOD LEARNING		
	SIGNATURE			
R3E 3J5				
TRACKING NUMBER 9999 9999	9999 9999	) Nº DE REPÉRAGE		
Sender warrants that this item does not contain non-mailable matter.				
FROM: /IDE : Sender's Name Nom de l'exp. :				
Sender's Address Adresse de l'exp. :				
9999 9999 99	99 9999	Retain for your records Conservez votre copie		
USE LOADING DOCK				

- 4. Request Pick-Up:
  - Press 1 for pick-up services.
  - Press 1 again for On-Demand Pick-Up.

- 5. Select Third-Party Pick-Up:
  - Press 2 for a third-party/alternate address pickup.
  - When prompted, confirm the account address: Manitoba Education and Early Childhood Learning, 1567 Dublin Ave, Winnipeg, R3E 3J5
- 6. Provide School Pick-Up Details:
  - Give the school's full address and exact location for package pick-up.
  - Provide the school contact's name and phone number.
  - State the number of packages and their approximate weight.

#### **Important notes:**

- Pickup Availability: Pick-ups are available Monday to Friday, starting at 12 p.m. Same-day pick-ups require a minimum of 60 minutes notice.
- Schools Outside Winnipeg: Please use the provided Xpresspost Flexipack envelopes for return shipping.
- Label Use: The pre-paid Xpresspost label provided is specific to this shipment. Do not use it for any other purposes.
- Packaging: Ensure your package is sealed properly to prevent any damage during transit.
- No Contract Number Needed: Schools do not need to provide a contract number. Using the Manitoba Education and Early Childhood Learning address is sufficient for this service.

If you have any further questions, please contact our office at 204-945-5011, or toll free at 1-800-282-8069, extension 5011, or by email at <u>assesseval@gov.mb.ca</u>.