

**Intermediate Mathematics  
Provincial Assessment 2009**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_ MI: \_\_\_\_\_

Teacher: \_\_\_\_\_

School: \_\_\_\_\_ School District: \_\_\_\_\_

**IMPORTANT**

You will have to complete your name and school information in three places:

- (1) On this sheet (above)
- (2) On the bubble sheet
- (3) On the cover of your Student Booklet

Please ensure the information in each of these places is completed correctly and clearly. Your bubble sheet will be placed inside this Section 1 Insert for mailing. Pay particular attention that the bubble sheet and insert information are correct.

**Section 1: Non-Calculator Section**

You will need a pencil, paper, and ruler for this section. You are not permitted the use of a calculator.

Questions 1 to 7 require you to write, draw, or graph your responses in the space provided in this booklet. Do not use your bubble sheet for these questions. Section 1 should take about 20 minutes.

Your teacher will collect Section 1 when everyone is finished and will then give you Section 2. You will need your bubble sheet for Section 3 only.

**Section 1 Insert**

1. Factor completely:  $16xy^2 - 8x^2y$

\_\_ out of 1 mark

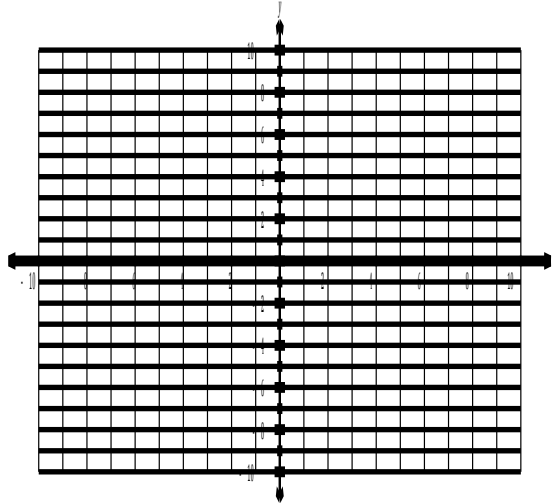
2. Calculate  $(7.0 \times 10^7) \div (3.5 \times 10^{-5})$  expressing your answer in scientific notation.

\_\_ out of 1 mark

3. Simplify:  $(4x^2 - 5xy - 6y^2) - (8xy + 4y^2 + 5x^2)$

\_\_ out of 1 mark

4. Using the axes provided, graph the line having a slope of  $-\frac{2}{3}$  and a  $y$ -intercept of 4.



\_\_\_ out of 1 mark

5. Solve:  $8x < 3x + 7$

\_\_\_ out of 1 mark

6. Solve:  $2(x + 3) - 3 = -3x + 8$

\_\_ out of 1 mark

7. Calculate:  $-2 + \frac{2}{3} \times 12$

\_\_ out of 1 mark