

Labrador School Board

Grade 8 Mathematics

District Assessment

June 16th, 2011

Name: _____

Teacher: _____

School: _____

Section 1: Non-Calculator Section

You will need a pencil/eraser for this section. You are **not permitted** to use a calculator. You are permitted to use any math manipulatives that your teacher has used with you this year.

Questions 1-10 (multiple choice): These are worth 1 mark each. Even though you have to choose an answer, you may have to work things out on scrap paper. You have been given a pink and white bubble sheet. You must be very careful of the way you handle this sheet. It will be scored by a computer and must not be **bent, torn**, or have **any** stray marks on it. You are to shade (**using a pencil only**) the appropriate bubble (having the same number as the question) on the bubble sheet. Do not shade more than one bubble or the question is scored as incorrect. If you need to change an answer, erase carefully with a good quality eraser.

Questions 1-4 (constructed response): Answers are to be done in the spaces provided. Students are reminded to show **all** steps/calculations since credit may be given for incomplete or partially correct solutions. **Numerical answers without workings/explanation will not merit full credit.** Your teacher will collect Section 1 when you are finished and will then give you Section 2. You will need your bubble sheet again for Section 2.

This is not a timed-test. You are allowed enough time to complete all items.

Section 1: Multiple Choice [10 Marks]

1. What is $\sqrt{169}$?
 - A. 12
 - B. 13
 - C. 43
 - D. 84.5

2. How many perfect squares lie between 0 and 50?
 - A. 6
 - B. 7
 - C. 8
 - D. 9

3. Calculate: $(-9) \times (+5)$
 - A. -45
 - B. -4
 - C. 4
 - D. 45

4. Calculate: $\frac{(-56)}{(-7)}$
 - A. -9
 - B. -8
 - C. 8
 - D. 9

5. Calculate: $((+6) \times (-6)) + (+4) \div (-2)$

A. -38

B. -34

C. -16

D. 16

6. Solve: $-8x = 72$

A. $x = -9$

B. $x = -\frac{1}{9}$

C. $x = \frac{1}{9}$

D. $x = 9$

7. Solve: $\frac{y}{-6} = -8$

A. $y = -48$

B. $y = -14$

C. $y = 14$

D. $y = 48$

8. The equation of a linear relation is $y = -3x - 12$. What is the missing number in the ordered pair (, -24) ?

A. -12

B. -4

C. 4

D. 12

9. Calculate: $\frac{8}{15} \times \frac{5}{6}$

A. $\frac{4}{9}$

B. $\frac{13}{21}$

C. $\frac{16}{25}$

D. $\frac{2}{3}$

10. Calculate: $2\frac{1}{2} \div 3\frac{1}{3}$

A. $\frac{2}{3}$

B. $\frac{3}{4}$

C. $1\frac{1}{3}$

D. $8\frac{1}{3}$

Section 1: Constructed Response [10 Marks]

Write your answers in the space provided. Show all workings to achieve full marks.

1. Explain how you would estimate the square root of 68. [3 Marks]

2. Sketch a model (i.e. counters, number line, etc.) to calculate $(+4) \times (-3)$. [2 Marks]

3. Jenna tells Jason that she knows that $4\frac{1}{2} \times 8\frac{1}{5}$ is greater than 36 before she actually performs the formal calculation. How might Jenna explain this to Jason?

[3 Marks]

4. Solve this equation. Show all your work.

[2 Marks]

$$2(x + 3) = -14$$