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Labrador School Board

Grade 8 Mathematics

District Assessment

June 15th, 2012

Name:_____

Teacher: _____

School: _____

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Section 1: Non-Calculator Section

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

<u>Questions 1-10 (multiple choice):</u> 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 <u>any</u> 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.

<u>Questions 1-4 (constructed response):</u> 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 <u>not</u> 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 – Selected Response: Shade the appropriate bubble on the bubble sheet.

1.   Which list represents the factors of a perfect square number?

       A)   1, 2, 4, 8, 16
       B)   1, 2, 7, 14
       C)   1, 2, 3, 4, 6, 12
       D)   1, 2, 3, 6, 9, 18

2.   The area of a square is 144 m^2. What is the perimeter of the square, in m?

       A)   12
       B)   48
       C)   72
       D)   288

3.   Calculate: $(-4) \times (-8)$

       A) -32
       B) -12
       C)   12
       D)   32

4.   Calculate: $\dfrac{(+42)}{(-6)}$

       A) -8
       B) -7
       C)   7
       D)   8

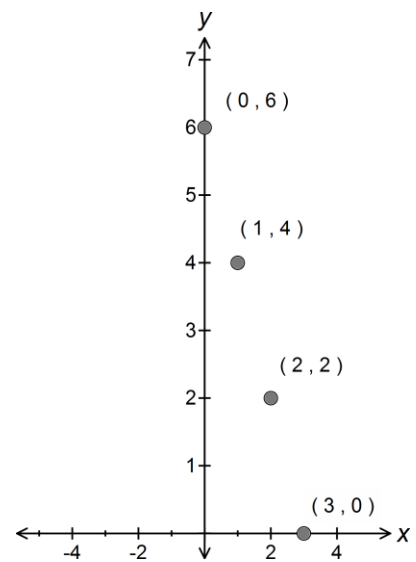5.   Calculate: $6 \div (-2 + 4)$

       A) -3
       B) -1
       C)   1
       D)   3

6.   Solve: $-4x = 12$

    A) $x = -48$
    B) $x = -3$
    C) $x = 3$
    D) $x = 48$

7.   Solve: $\frac{y}{-4} = -20$

    A) $y = -80$
    B) $y = -5$
    C) $y = 5$
   D)   y=80

8.   What relationship is indicated in the graph?

    A)   As x increases by 1, y decreases by 6

    B)   As x increases by 1, y decreases by 2

    C)   As x increases by 1, y increases by 2

    D)   As x increases by 1, y increases by 4

9. Merlin exercises for $1\frac{2}{3}$ hours each day of the week except Sunday. How many hours does he exercise in one week?

A) $6\frac{2}{3}$

B) 8

C) 10

D) $11\frac{2}{3}$

10. It takes $5\frac{1}{3}$ scoops of flour to make one cake. How many cakes do 32 scoops of flour make?

A) 3

B) 5

C) 6

D) 16

Section 1 -   Constructed Response: Answers are to be done in the spaces provided. Show all necessary workings.

1.   What is the length of the diagonal path to the nearest tenth? Justify your answer.
[3 Marks]
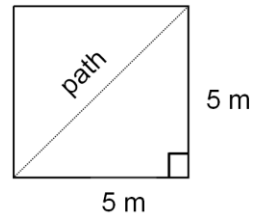
2.   Calculate $(+3) \times (-5)$ by sketching a model of your choice (i.e. counters, number line, etc.).   [2 Marks]

3.   Janet has <u>two</u> pieces of ribbon that are each $6\frac{1}{4}$ m long. She needs to cut each piece into smaller lengths of $\frac{3}{4}$ m. She thinks she will get 18 pieces of the appropriate length. Do you agree or disagree? Explain your answer.

[3 Marks]

4.   Solve: $-3(n + 2) = 15$ [2 Marks]