



ANSWER SHEET
Grade 8 Mathematics
June 2012

Name: _____

Section A: Non-Calculator

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| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |

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| 6. | |
| 7. | |
| 8. | |
| 9. | |
| 10. | |

| Teacher Use Only | |
|------------------|--|
| | <div>Selected Response: /10 Marks</div> <div>Constructed Response: /10 Marks</div> <div>Total: /20 Marks</div> |



NAME: _____

Grade 8 Mathematics
Final Examination
June 2012

Section A

| | | |
|----------------|----------------------|----------|
| Non-Calculator | Selected Response | 10 Marks |
| | Constructed Response | 10 Marks |

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 computer scorable 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. Erase carefully with a good quality eraser if you need to change an answer.

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 A when you are finished and will then give you Section B. You will need your bubble sheet again for Section B.

Section A – Selected Response: Shade the appropriate bubble on the bubble sheet.

1. Which list represents the factors of a perfect square number?
A) 1, 2, 3, 4, 6, 12
B) 1, 2, 7, 14
C) 1, 2, 4, 8, 16
D) 1, 2, 3, 6, 9, 18

2. The area of a square is 144 m^2 . What is the perimeter, in m?
A) 12
B) 48
C) 72
D) 288

3. Evaluate: $(-4) \times (-8)$
A) -32
B) -12
C) 12
D) 32

4. Evaluate: $\frac{(+24)}{(-3)}$
A) -8
B) -6
C) 6
D) 8

5. Evaluate: $6 \div (-2 + 4)$
A) -3
B) -1
C) 1
D) 3

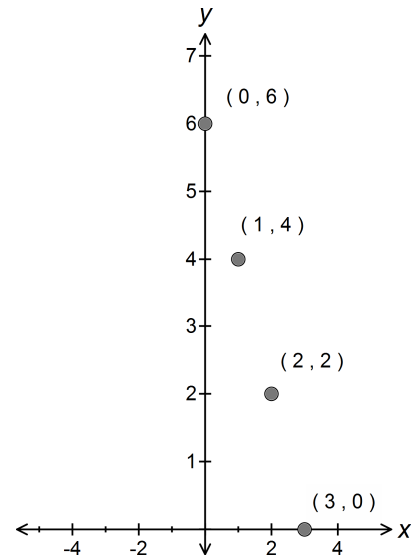
6. Solve for x : $-4x = 12$
A) -48
B) -3
C) 3
D) 48

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

- A) -80
- B) -5
- C) 5
- D) 80

8. What is the relationship 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. In a relay race, four students ran $1\frac{1}{4}$ km each. What was the total length, in km, of the race?

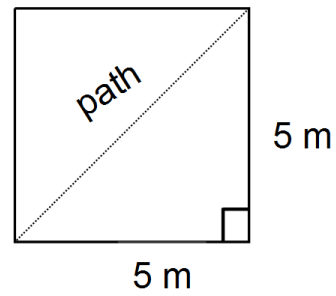
- A) 4
- B) $4\frac{1}{4}$
- C) 5
- D) $5\frac{1}{4}$

10. It takes $5\frac{1}{3}$ boxes to hold 16 muffins. How many muffins fill one box?

- A) 3
- B) 11
- C) $21\frac{1}{3}$
- D) $85\frac{1}{3}$

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

1. What is the approximate length of the diagonal path, to the nearest tenth?
Explain your answer. [3 Marks]



2. Calculate $(+3) \times (-5)$ by sketching a model of your choice (i.e. counters, number line, etc.) and state your answer. [2 Marks]

3. Janet has **two** pieces of ribbon that are each $6\frac{3}{4}$ m long. She needs to cut each piece into smaller lengths of $\frac{3}{4}$ m. How many smaller pieces will she have in total?
- [3 Marks]

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