

**Grade 8**

**Math**

**Homework**

**Test Prep**

**Packet #7**

**Student's Name**

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**Parent's / Guardian's Signature**

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## **Test –Taking Strategies for Students**

### **Multiple Choice Questions**

- Read all directions carefully.
- Underline important words or phrases.
- Cross out answer choices you know are wrong
- Do not spend too much time on any question.  
If a question is difficult, skip it and go back to it later.
- Be careful to mark each answer in the right place.
- If you want to change your answer, mark a X over the incorrect answer and then fill in the correct answer.
- Be sure to have an answer for each question.

### **Extended Response Items**

- Read each question carefully and think about the answer before writing your response.
- Be sure to answer the question being asked.
- Be sure to write your answer on the line.
- Use pictures or diagrams to help you solve a problem.
- Use numbers and words when asked to explain your answer.
- Use your protractor or ruler if required to answer a question.
- Use your calculator to help you solve the problems.  
(Grade 7 & 8 only)
- Keep your paper neat and organized.
- Be sure to show your work when asked, you may receive partial credit.

Name \_\_\_\_\_  
Grade 8

Date \_\_\_\_\_  
Test Prep Packet #7

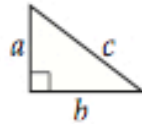


This picture means that you will use your ruler.

## Mathematics Reference Sheet

### FORMULAS

Pythagorean Theorem



$$c^2 = a^2 + b^2$$

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Simple Interest

$$I = prt$$

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Distance Formula

$$d = rt$$

### CONVERSIONS

Temperature Conversions

$$F = \frac{9}{5}C + 32$$

$$C = \frac{5}{9}(F - 32)$$

Measurement Conversions

$$1 \text{ mile} = 5,280 \text{ feet}$$

$$1 \text{ yard} = 3 \text{ feet}$$

**Read each question carefully and think about the answer before writing your response.**

1. Which pair of angles is complimentary?

A  $42^\circ, 48^\circ$

B  $62^\circ, 38^\circ$

C  $90^\circ, 90^\circ$

D  $100^\circ, 85^\circ$

2. Which set of numbers is in order from least to greatest?

A 0.0034, 0.032, .32%, 3.4%

B .32%, 0.0034, 0.032, 3.4%

C 0.032, 0.0034, 3.4%, .32%

D 3.4%, 0.032, .32%, 0.0034

3. Simplify the expression below.

$$(-5x^2 + 4x - 3) + (-2x^2 - 5x + 10)$$

A  $10x^2 - 20x - 30$

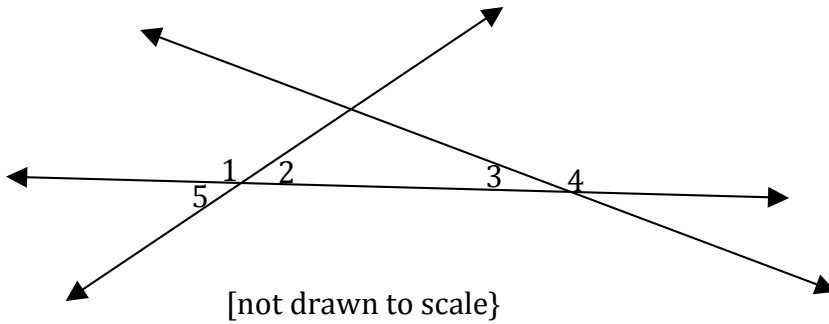
B  $10x^2 + x$

C  $-7x^2 - x + 7$

D  $-7x^2 + x - 7$

**Read each question carefully and think about the answer before writing your response. Be sure to show your work when asked.**

4. In the diagram below, the measure of  $\angle 2$  is  $45^\circ$  and  $\angle 3$  is  $30^\circ$ . Find the measure of the other angles.



$m \angle 1 =$  \_\_\_\_\_

$m \angle 4 =$  \_\_\_\_\_

$m \angle 5 =$  \_\_\_\_\_

5. Danny's Corner Store sells bags of popcorn in a variety of packages. The cost per bag is the same in every package. A package of 6 bags cost \$5.34. Write a proportion that can be used to determine the cost of a package of 2 bags.

**Part A** Proportion \_\_\_\_\_

**Part B** Solve the proportion.  
**Show your work.**

**Answer \$** \_\_\_\_\_