

Grade 8

Math

Homework

Test Prep

Packet #6

Student's Name

Parent's / Guardian's Signature

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.

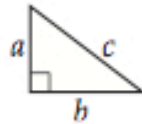


This picture means that you will use your ruler.

Mathematics Reference Sheet

FORMULAS

Pythagorean Theorem



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

Simple Interest

$$I = prt$$

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. The table below shows the prices of three different-sized bottles of fruit juice. Which brand has the lowest cost per ounce?

Fruit Juice

Brand Name	Cost	Number of Ounces	Cost Per Ounce
Tutti Fruitti	\$1.25	8 oz.	
Blast O Flavor	\$1.15	10 oz.	
Hug Chug	\$1.58	15 oz.	

- A Tutti Fruitti
- B Blast O Flavor
- C Hug Chug
- D All three brands cost the same.
2. Multiply the following monomials
- $$4y^2(3 + 4y^5)$$
- A $12y^2 + 16y^7$
- B $7y^2 + 8y^7$
- C $12y^2 + 4y^7$
- D $4y^2 + 3 + 4y^5$
3. A square has rotational symmetry of how many degrees?
- A 45°
- B 60°
- C 90°
- D 135°

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

4. Use your ruler to help you solve this problem.

Lashika swam across the harbor. Based on the scale drawing below, what is the distance, in meters, Lashika traveled?



Scale
 $\frac{1}{2}$ in. = 100 m

Show Your Work

Answer _____

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5. Karen walked 3.5 miles to her friend's house. She wants to express this distance in feet. Write a proportion to find the number of feet Karen walked.

1 mile = 5,280 feet

Proportion _____

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

Answer _____ feet