

Grade 8

Math

Homework

Test Prep

Packet #3

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.

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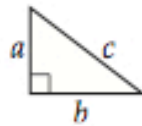


This picture means that you will use your ruler.

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 choosing your response.

1. Multiply the expression below.

$$-4m(m + 6)$$

- A $-4m - 10m$
- B $-4m - 6m$
- C $-4m^2 - 24m$
- D $4m^2 + 24m$

2. Simplify

$$(4^2 \times 4^6) \div 4^3$$

- A 4^4
- B 4^5
- C 16^4
- D 16^5

3. Elijah is planning a party for himself and seven of his friends. If the pizza costs \$19.50, the juice costs \$6.15 and the chips and pretzels cost \$5.25, estimate how much Elijah should charge himself and all of his friends to pay for the cost of the party.

- A \$3.00
- B \$4.00
- C \$6.00
- D \$35.00

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

4. Tyrone went to the grocery store and bought five items. He bought a gallon of milk for \$2.39, a loaf of bread for \$1.25, a dozen oranges for \$3.99, a box of cereal for \$2.89 and laundry detergent for \$4.95.

Tyrone has twenty dollars, will he have enough money to pay his bill?
Explain your reasoning on the lines below.

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5. What is the product of $-5xy^2$ and $-3x^4y$? Use the law of exponents to find the product.

Show your work.

Answer _____

Complete the following sentences regarding the laws of exponents for multiplication and division. You may use the word bank below.

Word Bank

add
exponential term

base
like bases

divide
multiply

exponent
subtract

An _____ is a number or a variable called the
_____ raised to a power called the _____.

When the bases of two exponential terms are equal, we say they have
_____.

When we _____ two or more exponential terms with like bases, we can keep the base and _____ the exponents.

When we _____ two exponential terms with like bases, we can keep the base and _____ the exponents.