

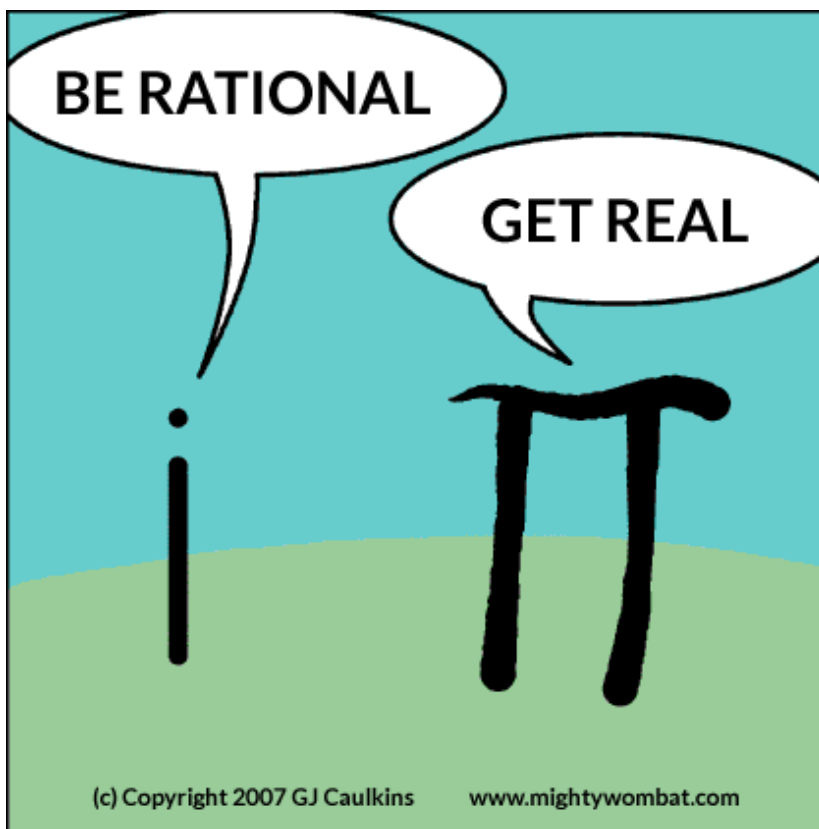
## Quiz (Lessons 1-5)

Name: \_\_\_\_\_

### Chapter 2 Quiz – Sections 1-4

Make sure you read and follow the directions for each section. **Be sure to show all of your work as you will be given partial credit for doing correct steps even if you end up at the wrong answer.** You will have until the end of class time to finish this quiz. Upon completion, please bring it up to my desk to hand in. The only things you are allowed to use on this quiz are pencil/pen, calculator, and scratch paper. You may not talk with anyone or use notes. You may come and ask me questions for clarification.

Good luck with your quiz and remember to keep a positive mental attitude!



**Solve the equation for the variable.**

1.)  $x + 15 = 26$

2.)  $x - 21 = -32$

3.)  $-5y = 40$

4.)  $\frac{5}{6}x = 10$

**Solve the following equations. Give each justification step you use in solving the equation.**

5.)  $m + 21 = 14$

**STEPS:**

6.)  $23 - n = 40$

**STEPS:**

7.)  $3x = -30$

**STEPS:**

$$8.) \frac{3}{4}y = -60$$

**STEPS:**

**Solve each equation for the variable.**

$$9.) 6x - 12 = 24$$

$$10.) \frac{2}{3}x + 8 = 16$$

**Solve each of the follow equations for the variable. Justify each of your steps along the way in solving each equation.**

$$11.) \frac{1}{4}x + 20 = 23$$

**STEPS:**

**STEPS:**

12.)  $17 - 5x = 7$

**Solve the following word problem. You must include the following: 1.) the equation for the problem, 2.) solving the problem with justification steps at each point, and 3.) your answer with a label.**

13.) A local motor sports store in Bismarck charges \$40 to rent a jetski. They charge an additional \$15 per hour for every hour that you have the jetski. Shelly paid \$130 to rent a jetski. How many hours did she have the jetski for?

**STEPS:**

**Solve the following equations for the variable.**

14.)  $3x + 6 = 2x + 3$

15.)  $4(x - 4) = 2(x + 2)$

**Solve each equation for the variable. Justify all of your steps along the way.**

16.)  $3y - 6y + 10 = -4y - y + 1$

**STEPS:**

17.)  $\frac{2}{3}x + 7 = \frac{4}{3}x + 1$

**STEPS:**

18.)  $6(-y - 2) = 7y + 14$

**STEPS:**

**Solve the following word problem. You must include the following: 1.) the equation for the problem, 2.) solving the problem with justification steps at each point, and 3.) your answer with a label.**

19.) Bill weighs 120 pounds and is gaining ten pounds each month. Phil weighs 150 pounds and is gaining 4 pounds each month. How many months,  $m$ , will it take for Bill to weigh the same as Phil?

**STEPS:**

**BONUS QUESTION (2 points):** What is the acronym we use for remembering the order of operations?