

Create Your Own Unit Test Due: Monday, June 8th

Assignment: For your **chapter 10 assessment** you will be creating **YOUR OWN Unit Test**. You are to create a real looking **chapter 10 TEST** that also comes with an **ANSWER KEY** that has **all work shown** on the key for **both** the **multiple choice** and **free response questions**. Below you will find the format you will use to make your test and the question topics. When finished please upload to the Google classroom assignment posted for it.

The **TEST** and its **ANSWER KEY** is your **assessment** for CH 10.

You must assign point value for each of the sections of the test. That means how many points do you want to make each of the matching, multiple choice, and free responses.

YOU DECIDE!!! I need the point values for the entire test to add up to 100.

TEST SECTIONS: Your test will have three sections:

1. A **matching section** with **at least 7** of the 9 **vocabulary words** (remember those are the **BOLDED** words in CH 10) from sections 10.1.1 to 10.2.3 The **answer key** just needs to have the **letter answers** next to the numbers (example like 1. C 2. E ...)

Matching: Students respond to matching questions by labeling a-g with the vocab word.

These questions are often used to assess recognition and recall and so are most often used in courses where acquisition of detailed knowledge is an important goal. They are generally quick and easy to create and mark.

The 9 words: rational expression, multiplicative Identity property, equivalent equation, fraction buster, rewriting, looking inside, undoing, perfect square form, exponent

2. A **multiple choice** section with **5 questions** from the concepts 10.1.1 to 10.2.3. Each multiple choice question needs either 3 (a-c) or 4 (a-d) answers to choose from. The **answer key** for the MC needs to have the **letter answer AND ALL work shown** on how you came up with the answer!

Multiple choice: questions are composed of one question with multiple possible answers (choices), including the correct answer and several incorrect answers (distractors).

Typically, students select the correct answer by circling the associated number or letter, or filling in the associated circle on the machine-readable response sheet.

3. A **free response** section with **5 questions** from the concepts 10.1.1 to 10.2.3. The **answer key** needs to have **ALL work shown** on how you came up with the answer!

Free response: questions are typically composed of a math problem that demands written steps to be shown to be able get to the correct answer. The number of steps varies in length but is usually 3 or more steps to be shown.

TEST QUESTION TOPICS: all 10 topics listed below need to be on test

There needs to be **ONE** question for **EACH** of the 10 topics listed below. You can choose which 5 topics you will use for the 5 multiple choice then the other 5 topics would be used for the 5 free response questions.

1. **Simplifying a rational expression** 10.1.1
2. **Multiplying a rational expression** 10.1.2
3. **Dividing a rational expression** 10.1.2
4. **Solve an equation with decimals** by finding an **equivalent equation** 10.1.3
5. **Solve an equation with fractions** and it must have a **variable in the denominator** by **busting the fraction** (multiply by the **common denominator** to remove fractions) 10.1.4
6. **Solve a radical** (square root) function (needs to have 3 or more steps) 10.2.1
7. **Solve a binomial squared** function (needs to have 3 or more steps) 10.2.2
8. **Solve a absolute value** function (needs to have 3 or more steps) 10.2.2
9. **Solve a cubic function** (needs to have 3 or more steps) 10.2.3
10. Make a question of **any type** of the solving functions in **#6-8** but make sure the answer to the problem has a **NO SOLUTION answer** (extraneous solution).