Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_

**\* All parts require work to be shown when needed**

Part I – Short Answer

1. What proper mathematical word can be used when referring to the “flip” of a fraction?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Give or describe an effective method used to compare fractions.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What operation will be performed last when solving for the final cost of an item given a sales tax?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part II – True or False

\_\_\_\_\_\_ 4) You will need to have common denominators when adding fractions.

\_\_\_\_\_\_ 5) You will need to have common denominators when multiplying fractions.

\_\_\_\_\_\_ 6) Positive Integer \* Negative Integer = Negative Integer

\_\_\_\_\_\_ 7) Negative Integer ÷ Negative Integer = Negative Integer

\_\_\_\_\_\_ 8) 5/8  < 10/16

\_\_\_\_\_\_ 9) 34/62 = 85/155

\_\_\_\_\_ 10) A negative integer raised to an even exponent will have a result of a negative product.

Part III – Evaluate

11) -7 + 4 = \_\_\_\_\_ 14) -5 \* 8 = \_\_\_\_

12) 12 – (-5) = \_\_\_\_\_\_ 15) -9 \* -9 = \_\_\_\_

13) -9 + - 10 = \_\_\_\_\_\_ 16) 30 ÷ -3 = \_\_\_\_

17) 5/9 18) 7/10

+ 1/6 \_\_\_ 3/8

\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

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Part IV – Simplify

For problems 19, 20, and 21 let X = 2 and Y = -3

19) X4 + (6Y – 2) \* 5

20) 80 – 6X + Y3

21) 20 - X/3 \* Y/2 +10

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_

Part V – Multiple Choices

\_\_\_\_ 22) The Brooklyn Bills have won 10 out of 18 games this season.

The Dallas Dragons have won 12 out of 24 games this season.

Which team has the better record?

1. The Dragons because they have won more games
2. The Bills because they have played less games
3. The Bills because they have won more than half their games and the Dragons have not
4. You can’t compare the two teams because they have a different total amount of games

\_\_\_\_ 23) Barnie and his family went strawberry picking last weekend. Altogether they picked

11/15 pounds of strawberries. Barnie has eaten 2/3 pounds of strawberries during the week. How many pounds of strawberries are left?

1. 10/12 b) 1/15  c) 13/18 d) 9/15

\_\_\_\_ 24) For a party, Eddie mixed 8/9 gallons of apple juice with 5/6 gallons of grape juice.

What is the total gallons of juice Eddie mixed?

1. 13/15 b) 1 13/18 c) 13/54 d) 1 20/27

\_\_\_\_ 25) Find the quotient of -20 and -4.

1. -5 b) -80 c) 80 d) 5

\_\_\_\_ 26) Ms. Casey’s checking account has a balance of 25 dollars. Her savings account has balance of -42 dollars. What is the sum of these amounts?

1. -$17 b) $67 c) $17 d) -$67

\_\_\_\_ 27) Which of the following is *not* another way to represent 32/40?

1. 0.8 b) 4/5 c) 288/360 d) 188/240

**\* All parts require work to be shown when needed**

Part VI – Percents

28) Larry is shopping for a new TV. He finds a TV that costs $430. When he checks out, he is told that he must pay an 18% sales tax. What will be the final cost of the TV?

29) Sarah is shopping for a new dress to wear to school. She has found two different dresses that she likes. The first dress cost $125 and is on sale for 15% off with no tax. The second dress will cost $96 and has an 8% sales tax. Which dress will be cheaper for Sarah to buy? How much will it cost?

30) Mike is looking to buy a used car. He is deciding between two different cars. The first car will cost $980 on sale for 12% off and has a 9% sales tax. The second car will cost $940 on sale for 9% off and has a 12% sales tax. Which car will be cheaper for Mike to purchase? How much will it cost?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_

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