**Quarter 2- EXAM REVIEW**

**For each topic below summarize key points.**

**Unit 1: NUMBER SYSTEM FLUENCY**

Whole Number Division

Operations with Decimals

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GCF

LCM

Dividing with Fractions

**UNIT 2: RATIO AND PROPORTIONAL REASONING**

Ratio

Rate

Unit Rate

Proportion

Percent

Measurement Conversion

**UNIT 3: EXPRESSIONS**

Types of Expressions

Order of Operations

Parts of an Expression

Distributive Property

Simplifying Expressions – Equivalent Expressions

Evaluating Expressions

Translating Expressions

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1. Lena has $87.39 in her bank account. She deposits $5.25 on Wednesday. On Friday, she withdraws $15. What is the balance?
2. Select the problem that is equivalent to 54.72. Circle all that apply.
3. 16.5 ÷ 0.3 B. 15.2 • 3.6 C. 41.04 ÷ 0.75 D. 12.02 • 4.1
4. Anka made 36 jars of plum jelly and 48 jars of grape jelly. She is putting the jars into boxes. Each box will have only one kind of jelly. She wants to have the same number of jars in each box. Anka wants to know the greatest number of jars of jelly she can have in a box. Select True or False for each statement.
5. Anka needs to find the LCM of 36 and 48. C. Anka needs to find the GCF of 36 and 48.
6. The greatest number of jars Anka can put in a box is 12. D. Anka will need 7 boxes.
7. Jasmine is cutting a ribbon into equal-size pieces. Look at each situation. Jasmine will use only pieces of ribbon that are exactly the given length. Will she have ribbon left over?
8. length of whole ribbon: 4 feet; length of each piece: 11/16 feet
9. length of whole ribbon: 3 ¾ feet; length of each piece: 5/8 feet
10. A car dealer has 4 white cars, 10 black cars, 6 red cars, and 8 silver cars on the lot. Give an example for each of the following relationships: part-to-part, part-to-whole, whole-to-part.
11. A line-painting truck is painting a line on the side of a roadway. The truck paints at a rate of 8 miles per hour. How many miles can be painted in ¼ hour?
12. Is the missing number a part or a whole? Next, solve for the missing number.
13. What number is 18% of 50? C. Sixty-eight percent of 56 is what number?
14. Two percent of what number is 400? D. Eighteen is 75% of what number?
15. Select measurements that are equivalent. Circle all that apply. A. 15 kilometers = 1,500,000 centimeters B. 28 feet = 9 yards C. 2.5 miles = 13,200 feet D. 60 inches = 4 feet E. 11,028 grams = 1.1028 kg
16. Approximate weights of several vehicles: car 2,500 lbs, minivan 4,500 lbs, large pickup truck 5,100 lbs

If it costs $500 per ton to ship a vehicle, which vehicles can be shipped for less than $1,250?

1. A video game system that normally sells for $249 is on sale for 15% off. Which expression(s) can be used to find the amount of the discount? A. 0.15(2.49) B. 0.15 • 249 C. 15 • 249 D. $\frac{3}{20}$ • 249 E. $\frac{15}{100}$ • 249
2. Gabriela correctly wrote an algebraic expression k – 11 to represent a phrase. For each of the phrases shown, circle the ones that could be used. A. the difference of k and 11 B. 11 less than k C. 11 minus k D. 11 fewer than k E. k subtracted from 11
3. Winona incorrectly wrote 7 – 3x for the phrase “the coefficient 7 times the difference of 3 and x”. Fill in the blanks using the following words: 7, 3, x, 3x, sum, product, quotient, difference.

The algebraic expression 7 – 3x represents “\_\_\_\_\_\_\_\_ minus the \_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_ and \_\_\_\_\_\_.”

The terms in the expression are \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. The coefficient in the expression is \_\_\_\_\_\_\_. The variable in the expression is \_\_\_\_\_\_\_\_. The factors in the expression are \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_. What algebraic expression should Winona have written for the phrase “the coefficient 7 times the difference of 3 and x”?

1. Write an algebraic expression for each phrase.

 6 times the sum of 4 and q 6 minus the product of 4 and q

 6 more than the sum of 4 and q The product of 6 and the difference of 4 and q

1. Evaluate. 5 + 4x; when x = 0.3
2. Evaluate. 52 – 2(y – 1.3)² + y; when y = 3