Name_____Class_____Date_____

REVIEW: QUARTER 3 ASSESSMENT

The QUARTER 3 CUMULATIVE TEST is scheduled for_____. Use this review to help you prepare for this assessment. In addition to this review, you may also practice the IXL skills listed on my webpage.

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VOCABULARY: sum, difference, product, quotient, numerical expression, algebraic expression, numerator, denominator, simplify, equivalent, least common denominator, mixed number, improper fraction, simplify factors, invert, reciprocal, unit cube, cube, prism, rectangular prism, volume, key words for operations (translating)

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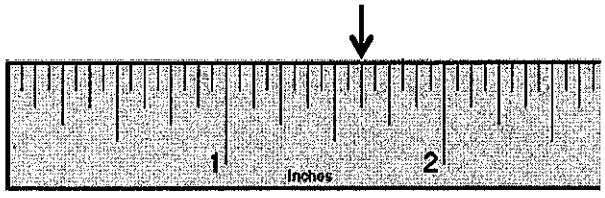
DIRECTIONS: ANSWER THE FOLLOWING QUESTIONS REFERRING TO YOUR CLASS NOTES AND HOMEWORK SHEETS. PLEASE FILL IN THE THINK BOXES FIRST IN ORDER TO ASSIST YOU IN ANSWERING THE QUESTIONS.

PART I: FRACTION TOPICS

REMEMBER: ALL ANSWER MUST BE WRITTEN IN SIMPLEST FORM.

1. _____ Change $2\frac{5}{9}$ to an improper fraction.

2. _____ What fraction is represented by the arrow?



3. _____ Which statement is not true?

a. $\frac{3}{4} > \frac{1}{3}$ b. $\frac{1}{3} < \frac{3}{4}$

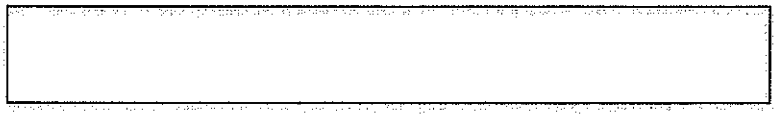
c. $\frac{1}{3} = \frac{2}{6}$ d. $\frac{3}{4} < \frac{1}{3}$

4. Order the following fractions from least to greatest. SHOW ALL OF YOUR THINKING.

$\frac{1}{2}, \frac{4}{5}, \frac{1}{10}, \frac{2}{5}, \frac{7}{10}$

5. _____ Model the following in the space below.

How many fourths are in 3 wholes?



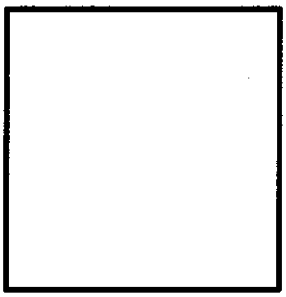
Think Box:

Write a mathematical sentence for this problem.

6. Anthony wants to buy $\frac{1}{2}$ of a pan of brownies that is $\frac{1}{4}$ full. What fraction of the whole pan does he buy?

a. Express this in a math sentence _____

b. Use modeling to demonstrate your thinking.



Think Box:

What operation is being implied in this problem?

How do you know?

7. Find the product or quotient. Write you answer on the line provided. SHOW ALL OF YOUR THINKING and please use the SIMPLIFYING FACTORS STRATEGY.

a. _____ $4\frac{2}{3} \div 1\frac{10}{12}$

b. _____ $\frac{11}{12}$ of $\frac{3}{22}$

c. _____ Find the product of $4\frac{1}{7}$ and $2\frac{1}{3}$.

d. _____ $1\frac{1}{5} \div \frac{7}{10}$

e. _____ $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$

f. _____ $1\frac{1}{3} \times \frac{3}{8} \times 3\frac{1}{5}$

PART II: FRACTION APPLICATIONS

8. _____ Leon has screws in her tool box. She needs a screw that is between $\frac{3}{4}$ of an inch long and $\frac{3}{8}$ of an inch long. Which size would work?

a.) $\frac{7}{8}$ b.) $\frac{9}{16}$

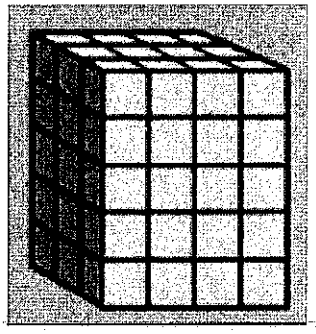
c.) $\frac{12}{16}$ d.) $\frac{1}{4}$

9. _____ Jillian shared $4\frac{2}{3}$ pounds of jellybeans with six friends. If the jellybeans are divided equally among 7 people, how many pounds of jellybeans will each person get? Express your answer as a mixed number in simplest form.

Think Box:

What is this an application of?

10. How many unit cubes are in the figure below.

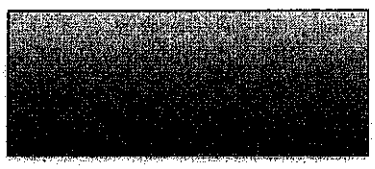


11. Find the volume of a cube with an edge length of $\frac{1}{2}$ cm.

Think Box:

Draw the cube and label its dimensions.

12. Find the area of a rectangular garden that has a length of $5\frac{2}{3}$ ft and width of $5\frac{1}{4}$ft.



Think Box:

Label the rectangle to the left.

13. Find the volume of the rectangular prism below that is made of small cubes with an edge length of $\frac{1}{2}$ cm.

Think Box:

Draw the cube and label its dimensions.

PART III: CUMULATIVE TOPICS

14. Change $\frac{8}{11}$ to a decimal. What kind of decimal is this?

Think Box:

How do you change a fraction to a decimal?

15. Find the difference. 30 – 2.86

Think Box:

What do you need to remember about subtracting fractions?

16. Find the quotient. $25.22 \div 0.25$

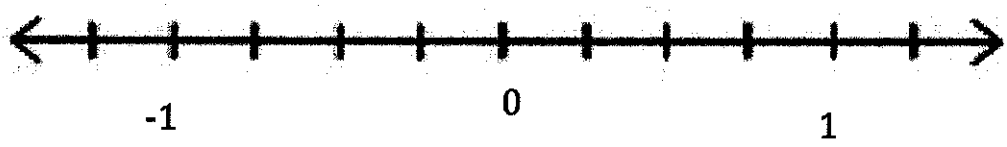
Think Box:

Which number is the dividend? Divisor?

How do you make the divisor a whole number?

17. Order the following rational numbers from least to greatest. SHOW ALL THINKING BELOW.

0.3 -0.75 $-\frac{1}{2}$ $\frac{1}{2}$ -1 -0.2 $\frac{5}{8}$ $-\frac{1}{3}$



Order: _____

18. Use one or more exponents to write the expression.

$7 \times 3 \times 7 \times 3 \times 7 \times 7 \times 3$

19. Use the funneling method to simplify the following numerical expressions.

a. $150 \div 5(2) + (9 + 1)^3$

b. $100(5.3)(2)$

Think Box:

Which of the problem(s) can you apply the power of 10 rule?

c. $10.7 + 12 \times 1.08$

d. $\frac{4}{5} - \frac{7}{10} + \frac{1}{2}$

20. Translate the following phrases to algebraic expressions.

a. 3 groups of a number

b. Twice the sum of x and 4

c. 5 less than half of a number

d. The quotient of n cubed and 2

e. The difference between twice a number and ten.

Think Box:

What do you need to remember about translating a word phrase containing "less than"?

Highlight or circle the key words in each of the problems to the left.