

# 6<sup>th</sup> Grade Summer Math Work Packet

\*All BLSYW 6<sup>th</sup> Grade students must submit the completed Math Summer Work Packet to their mathematics teacher on Friday, September 3, 2010.

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

# Summer Math Packet

## Number and Number Sense:

Recall:

*Rounding:* Underline the digit to be rounded to. Look at the digit to the right of this number. If it is 5 or above, the underlined number goes up by 1, if it is 4 or lower, the underlined number stays the same.

**Round each number to the nearest tenth:**

$2.31 = \underline{\quad\quad}$

$6.811 = \underline{\quad\quad}$

$4.45 = \underline{\quad\quad}$

$8.994 = \underline{\quad\quad}$

$5.58 = \underline{\quad\quad}$

$11.543 = \underline{\quad\quad}$

**Round each number to the nearest hundredth:**

$5.436 = \underline{\quad\quad}$

$128.3987 = \underline{\quad\quad}$

$2.824 = \underline{\quad\quad}$

$7.5643 = \underline{\quad\quad}$

$16.777 = \underline{\quad\quad}$

$14.8999 = \underline{\quad\quad}$

**Compare values of two decimals using  $>$ ,  $<$ , or  $=$ :**

Recall:

*Comparing and ordering decimals from least to greatest:* Order each number vertically, making sure the decimals points are lined up. Compare the numbers from left to right.

$1.435 \underline{\quad\quad} 1.347$

$2.3 \underline{\quad\quad} 2.300$

$0.359 \underline{\quad\quad} 0.369$

$4.111 \underline{\quad\quad} 4.2$

$4.85 \underline{\quad\quad} 4.84$

$0.03 \underline{\quad\quad} 0.004$

**Order decimals from least to greatest.**

0.347, 0.336, 0.349

0.56, 0.021, 0.003, 0.9

2.65, 2.71, 2.6

2, 0.15, 1.5, 2.7, 0.03

### Order fractions from least to greatest.

Recall:

*Ordering fractions from least to greatest:* Turn each fraction into a decimal by dividing the numerator by the denominator, or, find a common denominator for the set of fractions.

$$\frac{1}{4}, \frac{1}{3}, \frac{1}{2}$$

$$\frac{2}{3}, \frac{1}{10}, \frac{5}{6}$$

$$\frac{3}{4}, \frac{5}{6}, \frac{7}{8}$$

$$3\frac{3}{10}, 3\frac{2}{5}, 3\frac{1}{4}$$

### Find the sum, difference, or product.

Recall:

*Adding, subtracting & multiplying decimals:* When adding and subtracting decimals, line up the decimal points. Hint: Add zeroes so that both numbers have the same number of decimal places. When multiplying decimals, you DO NOT line up the decimal points. Multiply the numbers and then add up the number of places after the decimals in the problem. That total number is the number of decimal places in the answer.

$$2.354 + 1.5 =$$

$$14 - 0.55 =$$

$$6 \times 0.07 =$$

$$3 + 0.076 =$$

$$33.1 - 7 =$$

$$0.38 \times 86 =$$

$$0.289 + 9.87 =$$

$$4.7 - 0.92 =$$

$$0.08 \times 0.007 =$$

Find the quotient. (There may be a remainder.)

$$8,037 \div 77$$

$$1,608 \div 8$$

$$2,759 \div 32$$

Find the quotient

Recall:

*Dividing a decimal:* Remember to bring the decimal point straight up from the dividend.

$$0.284 \div 4$$

$$2.96 \div 8$$

$$28.29 \div 3$$

Add or subtract.

Recall:

*Adding and subtracting fractions:* You must find a common denominator.

$$\frac{5}{9} + \frac{6}{9} =$$

$$\frac{6}{9} - \frac{1}{3} =$$

$$\frac{7}{10} - \frac{2}{10} =$$

$$3\frac{2}{5} + 1\frac{3}{4} =$$

$$11\frac{1}{10} - 4\frac{9}{10} =$$

$$12\frac{1}{5} - 3\frac{3}{4} =$$

**State whether each scenario would be measured in PERIMETER, AREA OR VOLUME.**

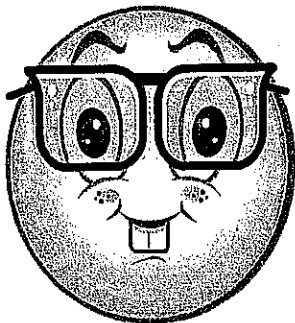
Recall:

*Perimeter* is the distance around a figure. *Area* is the number of square units needed to cover a region. *Volume* is the number of cubic units that fit inside a space figure.

- Filling a pool \_\_\_\_\_
- Fence around a garden \_\_\_\_\_
- Carpet in a room \_\_\_\_\_
- Cover over a swimming pool \_\_\_\_\_
- Filling a glass full of juice \_\_\_\_\_
- Planting flowers around the edge of your yard \_\_\_\_\_

**Circle the best unit of measurement for each.**

Length of a pencil	Inches	Feet	Yards	Mile
Distance from home to a park	Inches	Feet	Yards	Mile
Running a race	Millimeter	Centimeter	Meter	Kilometer
Length of a desk	Millimeter	Centimeter	Meter	Kilometer
Weight of a train	Ounces	Pounds	Tons	
Weight of a football player	Ounces	Pounds	Tons	
Weight of a book	Gram	Kilogram		
Weight of paperclip	Gram	Kilogram		
Capacity of fish tank	Cup	Pint	Quart	Gallon
Capacity of a bottle of water	Cup	Pint	Quart	Gallon
Capacity of a can of soup	Milliliters	Liters	Kiloliters	
Capacity of a milk carton	Milliliters	Liters	Kiloliters	



Knowing your basic addition, subtraction, multiplication & division facts is **EXTREMELY** important for success in 6<sup>th</sup> grade math. Practice, practice, practice these this summer. Flash cards are a great way to keep your mind in great math shape!

Find the mean, median, mode and range.

TEAM	# OF WINS IN 2007 SEASON:
RED SOX	96
YANKEES	94
PIRATES	68
MARLINS	71
PADRES	89
INDIANS	96
REDS	72
NATIONALS	73
BRAVES	84
PHILLYS	89

Recall:

*Mean* is the average of the data. *Median* is the middle number when the set of data is put in order. *Mode* is the number that occurs most often in a set of data. *Range* is the highest number minus the lowest number.

Order the scores from least to greatest:

\_\_\_\_\_

Find the MEAN: \_\_\_\_\_

Find the MEDIAN: \_\_\_\_\_

Find the MODE: \_\_\_\_\_

Find the RANGE: \_\_\_\_\_

Kade has the following test scores in math for the 4<sup>th</sup> quarter.

8	79
9	136
10	0

Order the scores from least to greatest:

\_\_\_\_\_

Find the MEAN: \_\_\_\_\_

Find the MEDIAN: \_\_\_\_\_

Find the MODE: \_\_\_\_\_

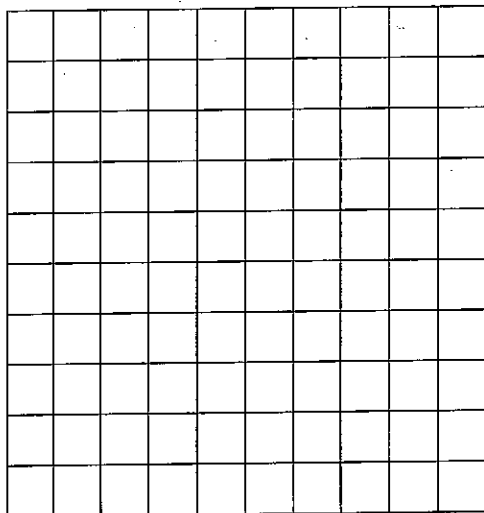
Find the RANGE: \_\_\_\_\_

Name \_\_\_\_\_ Date \_\_\_\_\_

Original Grade:

Revised Grade:

A. Shade in the grid to show .2



B Use what you know about decimals to explain why your answer is correct. Use words, numbers, and/or symbols in your explanation.

---

---

---

---

---

---

---

**RUBRIC**

- General
- Specific
- Illustration/Work/Label
- Vocabulary

BCR: DECIMAL CONCEPTS WTA 1

Name \_\_\_\_\_ Date \_\_\_\_\_

Original Grade:

Revised Grade

$$t \times 4$$

A What is the value of the expression if  $t$  equals 24?

\_\_\_\_\_

B Use what you know about solving expression to explain how you found your answer. Use words, numbers, and/or symbols in your explanation.

---

---

---

---

---

---

---

**RUBRIC**

- General
- Specific
- Illustration/Work/Label
- Vocabulary

BCR: ALGEBRA: Expressions WTA 1

Pizza that the Classes Ate	
Class A	$1\frac{1}{4}$
Class B	$1\frac{1}{5}$
Class C	$\frac{3}{2}$

- A. List the amount of pizza that the classes ate in order from least to greatest.
- B. Use what you know about fractions to explain how you found your answer. Use words, symbols, or numbers in your answer

A. .

---

B.

---



---



---



---



---



---



---



---

- General
- Specific
- Illustration/Work
- Vocabulary

**Brief Constructed Response:  
Compare Fractions: WTA 1**

Name \_\_\_\_\_ Date \_\_\_\_\_

Original Grade: \_\_\_\_\_  
Revised Grade: \_\_\_\_\_

The game card below has a factor of 2 between and including 14 and 20 on it.

**Game Card**

- A. What is the probability that the card will have the number 18 on it? Write your answer as a fraction.
  
- B. Use what you know about probability and fractions to explain how you found your answer.. You may use numbers, words, and or symbols in your explanation.

A.

B.

---

---

---

---

---

---

---

---

---

---

- General
- Specific
- Illustration/Work
- Vocabulary

**Brief Constructed Response: Probability  
Outcomes : RA 3c**