

ST. ANTHONY OF PADUA SCHOOL

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RIISING 6th - SUMMER MATH REVIEW PACKET

Congratulations on the hard work you have put into your math studies! Middle school is a new adventure for students, with new and exciting opportunities as well as new challenges and expectations. Sixth grade is a transitional year where you will be expected to build upon and apply the wonderful knowledge you gained in elementary school.

One of the keys to a good start to middle school math is to continue practicing concepts already learned and utilize the skills already mastered over the summer. Included in this packet are review worksheets, an answer key, and some charts to review or memorize (see below). You are expected to attempt every problem in the packet, show all work, and check your answer. If your answer is incorrect, use the correct answer to work backwards and arrive at the correct answer.

The review packet is due on the first day of math class. It will be collected, along with the attached work for a quiz grade.

Instructions:

1. Complete every problem.
2. If you do not have enough room, complete the work on separate paper and clearly number each problem. **Do not use a calculator for computation.** Circle each answer.
3. Use the provided answer key to check answers. If a problem is incorrect, try it again by working backwards from the correct answer.
4. Complete the questionnaire.
5. Review the attached divisibility rules, percent chart, and Words into Math. You will need to memorize them in sixth grade.
6. Continue to practice multiplication and division facts up through 144.

Have a wonderful summer!

Ms. Jaklitsch
Middle School Math Teacher

Week #1

1) Put a "P" next to the Prime numbers and a "C" next to the Composite numbers.

___ 7

___ 21

___ 31

___ 101

___ 40

Write 196.965 in word form and expanded form.

2) Word Form:

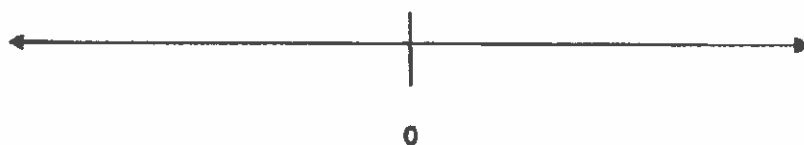
3) Expanded Form:

4) Round 4,997 to the underlined place _____

5) Put the following fractions on the number line where they belong: $\frac{5}{6}$, $\frac{4}{5}$, $\frac{2}{3}$



6) Put the integers on the number line where they belong: +3, -1, +1, -3



Week #1

7) Reduce: $\frac{14}{49} = \text{---}$

8) Add, subtract, multiply or divide the fractions.

$$\frac{7}{15} + \frac{3}{10} =$$

$$\frac{3}{14} - \frac{1}{7} =$$

$$\frac{2}{9} \times \frac{12}{14} =$$

$$\frac{5}{6} \div \frac{1}{4} =$$

9) Divide using long division.

$$13 \overline{) 1.56}$$

10) Multiply. 9.2

$$\underline{\times 3.1}$$

Week #1

11) Use the order of operations to solve: $5 \times (3 - 3) + 1 =$

12) If $x = 54$, simplify each of the following:

a) $x + 7$

b) $x - 28$

c) $91 - x$

d) $3x$

13) Find the mean, median, mode, and range of the set of numbers: 3, 8, 12, 5

Mean =

Median =

Mode =

Range =

14) Find the perimeter and the area of the figures. Don't forget the units of measurement!!!



8 ft

Perimeter = _____

Area = _____



12 m

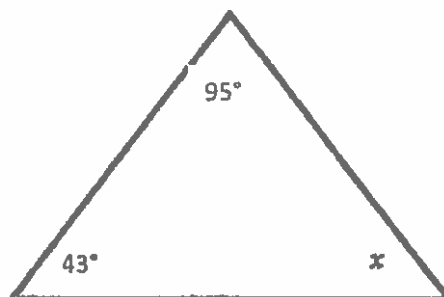
Perimeter = _____

Area = _____

Week #1

15) Find the missing angle:

$x =$ _____



16) Identify whether the figures are similar or congruent.





17) Maria has three red dresses, 2 white dresses, and one blue dress. What is the probability she will wear a blue dress at her party?

Week #2

1) Match the number sentence to its property.

Number Sentence

Property

$12 \times 45 \times 0 = 0$

Commutative Property of Addition

$6 + 5 + 4 = 4 + 6 + 5$

Associative Property of Multiplication

$53 \times 1 = 53$

Multiplication Property of Zero

$(3 \times 4) \times 5 = 3 \times (4 \times 5)$

Identity Property of Multiplication

2) Round 27.9428 to the underlined place _____

3) Fill in the table with the corresponding fractions, decimals, and percents.

Fraction	Decimal	Percent
$\frac{1}{2}$	0.5	50%
—	0.6	
$\frac{4}{5}$		
—		30%

Week #2

4) Change the following fractions into mixed numbers or vice versa.

$$\frac{23}{8} =$$

$$3\frac{3}{8} =$$

5) Add, subtract, multiply or divide the fractions.

$$\frac{15}{16} + \frac{3}{4} =$$

$$\frac{7}{9} - \frac{2}{6} =$$

$$\frac{7}{12} \times \frac{8}{14} =$$

$$\frac{3}{4} \div \frac{9}{12} =$$

6) Divide using long division.

$$2 \overline{) 7.45}$$

7) Multiply. 14.1

$$\underline{\times 2.7}$$

Week #2

8) Use the order of operations to solve: $16 \div (4 \times 2) + 3 \times 2 =$

9) If $x = 10$, simplify each of the following:

a) $x + 6$

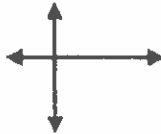
b) $x - 7$

c) $15 - x$

d) $4x$

10) Match the geometry term with the corresponding diagram.

Point	Line	Ray	Line segment
Intersecting lines	Parallel lines	Perpendicular lines	



Week #2

11) Classify each angle below as Acute, Right, Obtuse, or Straight.



12) Circle the best unit of measure for each item.

Length of a Pencil	Inches	Feet	Yards	Mile
Weight of a train	Ounces	Pounds	Tons	
Capacity of a can of soup	Milliliters	Liters	Kiloliters	
Weight of a textbook	Milligrams	Grams	Kilograms	

13) The distance across a pool is 12 feet. If you walk all the way around the pool, how far have you walked? Use the formula $C = \pi d$.

14) Find the area of a triangle whose height is 6 inches and base is 4 inches. Use the formula $A = \frac{bh}{2}$

Week #3

1) Put a "P" next to the Prime numbers and a "C" next to the Composite numbers.

___ 41

___ 93

___ 61

___ 27

___ 57

Write 12,363,192 in word form and expanded form.

2) Word Form:

3) Expanded Form:

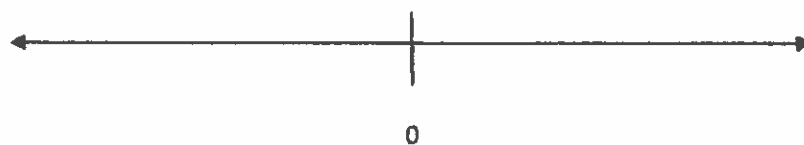
4) Round $57.9\underline{0}56$ to the underlined place _____

5) Put the following decimals on the number line where they belong:

0.265 ; 0.243 ; 0.251



6) Put the integers on the number line where they belong: -5 , +6, +3, -2



Week #3

7) Reduce: $\frac{21}{24} = \text{---}$

8) Add, subtract, multiply or divide the fractions.

$$\frac{7}{8} + \frac{1}{2} =$$

$$\frac{21}{24} - \frac{3}{8} =$$

$$\frac{1}{2} \times \frac{9}{13} =$$

$$\frac{6}{7} \div 3 =$$

9) Divide using long division.

$$\overline{2) 8.4}$$

10) Multiply. 82.04

$$\underline{\times 1.2}$$

Week #3

11) Use the order of operations to solve: $(8 - 4) \div 2 \times 5 =$

12) If $x = 27$, simplify each of the following:

a) $x + 9$

b) $x - 12$

c) $32 - x$

d) $2x$

13) Find the mean, median, mode, and range of the set of numbers:

5, 5, 7, 5, 9, 11, 18

Mean =

Median =

Mode =

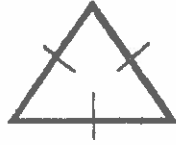
Range =

14) Classify each triangle by its angles as Acute, Right, or Obtuse.



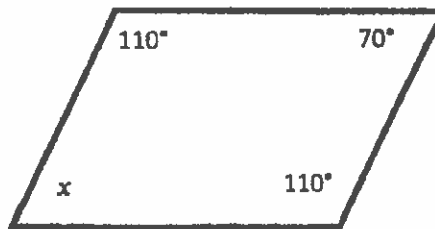
Week #3

15) Classify each triangle by its sides as Equilateral, Isosceles, or Scalene.



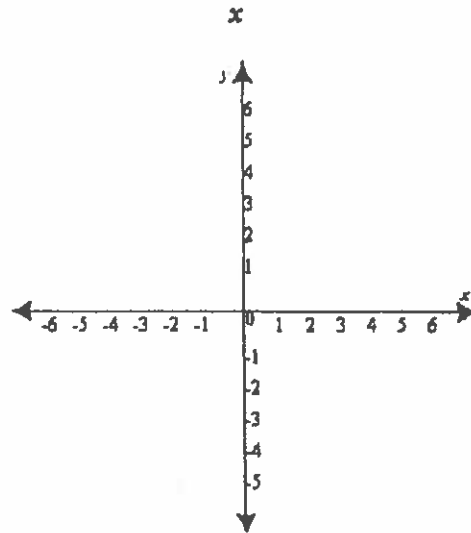
16) Find the missing angle:

$x =$ _____



17) Graph the points on the coordinate plane.

- A (4, 2)
- B (-3, 1)
- C (-4, -5)
- D (2, -1)



18) Frank is buying a car and can't decide on what color it should be. He has to choose between three shades of green, two shades of blue, or two shades of purple. What is the probability he will choose a green car?

Week #4

1) Match the number sentence to its property.

Number Sentence

Property

$$(6 + 5) + 3 = 6 + (5 + 3)$$

Commutative Property of Mult.

$$7 + 0 = 7$$

Associative Property of Addition

$$2(4 + 7) = 2 \times 4 + 2 \times 7$$

Distributive Property of Multiplication

$$3 \times 4 \times 5 = 3 \times 4 \times 5$$

Identity Property of Addition

2) Round 123.8531 to the nearest hundredth _____

3) Fill in the table with the corresponding fractions, decimals, and percents.

Fraction	Decimal	Percent
$\frac{7}{10}$	0.7	70%
—	0.25	
$\frac{17}{20}$		
—		22%

Week #4

4) Change the mixed numbers into improper fractions.

$$3 \frac{3}{4} =$$

$$2 \frac{4}{5} =$$

5) Add, subtract, multiply or divide the fractions.

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

$$3 \frac{3}{4} - 2 \frac{4}{5} =$$

$$3 \frac{3}{4} \times 2 \frac{4}{5} =$$

$$3 \frac{3}{4} \div 2 \frac{4}{5} =$$

6) Divide using long division.

$$8 \overline{) 2.96}$$

7) Multiply.

91

x 4.5

Week #4

8) Use the order of operations to solve: $62 - (5 \times 4) \div 2 =$

9) If $x = 39$, simplify each of the following:

a) $x + 25$

b) $x - 28$

c) $71 - x$

d) $3x$

10) Match the geometry term with the part of the circle.

Radius _____

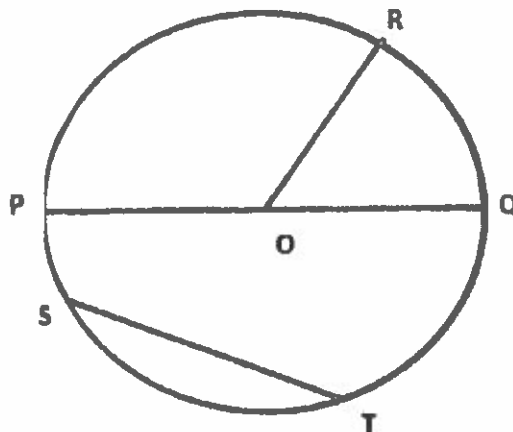
Chord _____

Diameter _____

Semicircle _____

Center _____

Arc _____



Week #4

11) Circle the best unit of measure for each item.

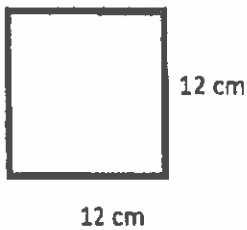
Running a race	Millimeter	Centimeter	Meter	Kilometer
Weight of a soccer player	Ounces	Pounds	Tons	
Capacity of a swimming pool	Milliliters	Liters	Kiloliters	
Weight of a pencil	Milligrams	Grams	Kilograms	

12) Convert the measurements.

5 feet = _____ inches

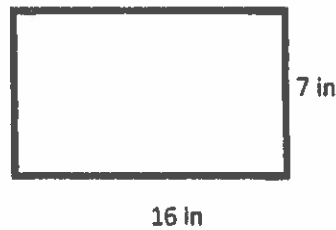
30 millimeters = _____ centimeters

13) Find the perimeter and the area of the figures. Don't forget the units of measurement!!!



Perimeter = _____

Area = _____



Perimeter = _____

Area = _____

Week #4

14) Danny is installing a fence around his rectangular yard. His yard is 20 feet long by 45 feet wide. If the fencing he picked out costs \$25 per foot, how much money will Danny spend on the fence?

Week #5

1) Put a "P" next to the Prime numbers and a "C" next to the Composite numbers. Use the Divisibility Rules to help you.

___ 63

___ 147

___ 61

___ 292

___ 99

Write 35,284 in word form and expanded form.

2) Word Form:

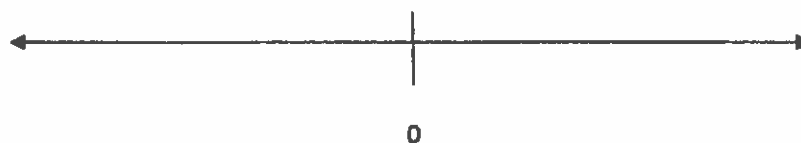
3) Expanded Form:

4) Round 274,963 to the ten-thousands place _____

5) Put the following fractions on the number line where they belong: $\frac{3}{10}$, $\frac{4}{9}$, $\frac{5}{8}$



6) Put the integers on the number line where they belong: +1, -1, -5, -3



Week #5

7) Put the following decimals on the number line where they belong:

2.65 ; 2.6 ; 2.623 ; 2



8) Add, subtract, multiply or divide the fractions.

$$\frac{5}{7} + \frac{1}{3} =$$

$$\frac{5}{7} - \frac{1}{3} =$$

$$\frac{5}{7} \times \frac{1}{3} =$$

$$\frac{5}{7} \div \frac{1}{3} =$$

9) Divide using long division.

$$48 \overline{) 113.76}$$

10) Multiply. 2.56

x 0.6

Week #5

11) Use the order of operations to solve: $64 \div (3 + 5) \times 9 =$

12) Match the word phrase to its algebraic expression. Use Words into Math to help you.

_____ Ninety-one minus a number

a) $n + 7$

_____ Seven more than a number

b) $n - 28$

_____ Three times a number

c) $91 - n$

_____ Twenty-eight less than a number

d) $3n$

13) Find the mean, median, mode, and range of the set of numbers:

9, 9, 12, 5, 4, 3, 2

Mean =

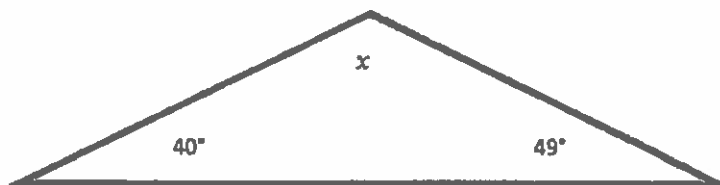
Median =

Mode =

Range =

14) Find the missing angle:

$x =$ _____



Week #5

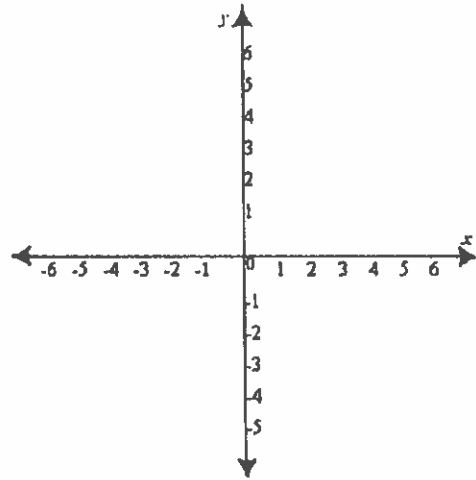
15) Graph the points on the coordinate plane.

A(1,2)

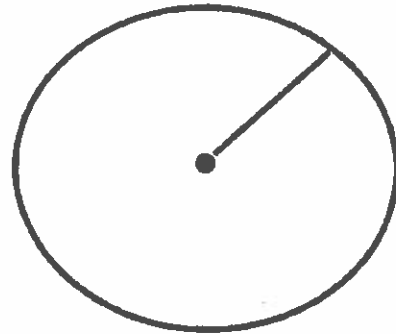
B (-5, 4)

C (-3, -3)

D (2, -2)



16) Find the area covered by a water sprinkler that can cover a circular area with a 25 foot radius. Use the formula $A = \pi r^2$ where $\pi = 3.14$



17) Mr. Smith is forming a 24-member choir. He wants to have twice as many girls as boys. How many girls does he need and how many boys does he need for his choir?

Words into Math

Addition

- + Add
- + Together
- + More
- + And
- + Sum
- + Plus
- + In all
- + Total
- + Altogether

Subtraction

- Difference
- Fewer
- Left
- Less
- Minus
- Remains
- Decreased by
- How many/much more
- Lost

Multiplication

- x Times
- x Of
- x Product
- x Multiple
- x Twice
- x Every

Division

- ÷ Per
- ÷ Divided by
- ÷ Quotient
- ÷ Shared
- ÷ Distributed
- ÷ Fraction

Divisibility Rules

Please memorize the divisibility rules below.

A number is divisible by:	If...	Example
2	the ones digit is an even number / is divisible by 2	768 : 8 is an even number
3	the sum of its digits is divisible by 3	357 : $3 + 5 + 7 = 15$ >>>15 is divisible by 3
4	the last two digits form a number divisible by 4	5,124 >>>24 is divisible by 4
5	the ones digit is 0 or 5	965 : ones digit is 5
6	it is divisible by both 2 and 3	114 : 4 is even ; $1 + 1 + 4 = 6$ >>>6 is divisible by 3
8	the last three digits form a number divisible by 8	5,618,352 : 352 is divisible by 8
9	the sum of its digits is divisible by 9	4,536 : $4 + 5 + 3 + 6 = 18$ >>>18 is divisible by 9
10	the last digit is 0	350 : the last digit is a 0

