TABE M REVIEW

**READ\*ROUNDING\*PLACE VALUE**  100 10   
**place value million** thousand thousand **thousand**  **hundred** tens ones **and** 10ths 100ths thousandths5,791,315.26 = 5 7 9 1 3 1 5 . 2 6 =5million, 791thousand, 3hundred 15 and 26 hundredths

246,810.8 = 2 4 6 8 1 0 . 8 = 246thousand, 8hundred 10 and 8tenths

Rounding to the nearest unit no number will appear after the number in the ones place 5,791,31**5**.26 246,81**0**.8   
 This number will be increased by 1 if the number behind it is 5 or more  
 If the number is less than 5 the number does not change 5,791,315 246,811

nearest 10ths no numbers will appear after the number in the 10ths place 5,791,315.**2**6 246,810.**8**   
 5,791,315.3 246,810.8  
nearest 1000 no numbers will appear after the 1000 place 5,79**1**,315.26 24**6**,810.8   
 5,791,000 247,000

In which of the above numbers does the 1 have a values that is 100 times the value of the 1 in the number 10?  
 100 x 10 = 1000 5,79**1**,315.26 has a 1 in the 1000 place

***SOLVE*** 360 3,600 36,000 360,000

In which number does the 6 have a values that is 10 times the value of the 6 in the number 600?

In which number does the 3 have a values that is 10 times the value of the 6 in the number 3000?

***ROUND*** 5,307.3573 to the nearest hundreds \_\_\_\_\_\_\_\_\_\_\_\_\_ nearest hundredths \_\_\_\_\_\_\_\_

to the nearest thousands \_\_\_\_\_\_\_\_\_\_\_\_\_ nearest thousandths \_\_\_\_\_\_\_\_\_\_

***WRITE*** 5,307.35 5,300 0.353 0.024

600 x 10 = 6000 so 36000 has the 6 in the thousands place   
3000 x 10 = 30,000 so 36000 has the 3 in the ten thousands place 5300.00 5307.36 5000.00 5307.357  
5 thousand 3 hundred seven and thirty-five hundredths\*5 thousand 3 hundred\*3hundred 53thousandths\*24thousandths

**MEASUREMENT** 12 in. = 1 foot 3 ft. = 1 yd. 1 meter = 100 centimeters  
 12” = 1’ 3’ = 1 yd. 1 m = 100 cm  
 .25 = .50 = .75 = .33 = .66 =

18” + 1’ = \_\_\_\_\_inches 18” + 1 yard = \_\_\_\_\_inches 5 m = \_\_\_\_\_ cm 450cm = \_\_\_\_ m  
  
10’ + 1 yard = \_\_\_\_\_feet = \_\_\_yds \_\_ft 28” + 1 yard = \_\_\_\_\_inches = \_\_\_yds \_\_ft \_\_in 24” + 1’ = \_\_\_\_\_in= \_\_\_\_\_ft

= \_\_\_\_ = \_\_\_\_ .33 = \_\_\_\_ = \_\_\_\_ .66 = \_\_\_\_ = \_\_\_\_ .50 = \_\_\_\_   
  
100 cm = \_\_\_\_ m 10 m = \_\_\_\_\_ cm 5000 cm = \_\_\_\_ m 6 m = \_\_\_\_\_ cm 900 cm = \_\_\_\_ m  
(18” + 12”= 30 in)(18”+ 36”= 54 in)(5 x 100 = 500cm)(450 ÷ 100=4.5)(10’+ 3’=13 ft = 4 yds 1 ft)(28”+ 36”= 64 inches = 1 yds 2’ 4”)(2’+1 = 36”=3’  
(.25 )( .75 )( )( .50)( )(.25 )( )( 1m )( 1000cm )(10m )( 600cm )( 9m) **FACTORS -** what divides into a number evenly LIST multiply combinations that equal the number 12 = 1 x 12 , 2 x 6, 3 x 4 = factors 1, 2, 3, 4, 6, 12.  
GCF - GREATEST COMMON FACTOR  
What is the greatest common factor of 36 & 45?  36 = 1 **36** 2 **18** 3 **12** 4 **9** 6 **6** **9**   
 45 = **1** 45 **3** 15 **5** 9   
Which pair has a GCF of 12 ?   
 36 and 45 36 = 1 **36** 2 **18** 3 **12** 4 **9** 6 **6** **36 and 48**   
 36 and 48 48 = 1 **48** 2 **24**  3 **16** 4 **12**  6 **8**

Which pair has a GCF of 3 ?   
 38 and 48 38 = 1 **38** 2 **19 45 and 105**  
 48 and 105 48 = **1** 48 **2** 24 **3** 16 **4** 12 **6** 8  
 105 = 1 **105** 3 **35** 5 **21   
PRIME** When a number’s only factors are 1 and itself  
**COMPOSITE** All numbers that are not prime

What is the Least Common Factor of 27 and 126 What is the GCF of 24 and 40   
What is the GCF of 12 and 16 What is the GCF of 6 and 15   
What is the GCF of 6 and 18 What is the Least Common Factor of 45 and 105

***LABEL*** these numbers as prime or composite 4\_\_\_\_\_\_ 2\_\_\_\_\_\_ 9\_\_\_\_\_\_ 17\_\_\_\_\_\_ 29\_\_\_\_\_\_ 36\_\_\_\_\_\_ (3 )( 8 )( 4 )( 3 )( 6 )( 5 )( C )( P )( C )( P )( P )( C )

**GREATER THAN & LESS THAN** > Small end points to small number < larger end opens to large number  
 ≥ greater than or equal to ≤ less than or equal to

0.4 > .25 .005 < 0.3 .70 < 2.5 . 21 < .5 .15 > .027

Try - Read each number as a dollar and cents amount to help focus on the meaning of the decimal   
 - Add zero behind a number to give it the same amount of digits

X XX XX .6 < .8 XX XX X 4 ≥ x   
 X X XX 4 is greater than or = to x 0 1 2 3 4 5 6 0 1 2 3 4 5 6 4 >x Use a closed circle for ≥ and ≤ Use an open circle for < and >   
   
x < 1 -1 0 1 2 3 4 5 Compare and contrast this example to the previous problem?   
 < used instead of > but arrow still points left because X is still < less than the number ***FILL IN THE BLANK***

0 1 2 3 4 5 6 -1 0 1 2 3 4 5 -1 0 1 2 3 4 5 5 6 7 8 9 0 6   
 x \_\_ 5 x ­\_\_\_ 3 x \_\_\_ 1 x \_\_\_ 6 x ≥ 2

6.2 \_\_\_ .753 .207 \_\_\_ .270 3.32 \_\_\_ 3.5 0.17 \_\_\_ 0.208 0.168 \_\_\_ 0.65 0.6 \_\_\_ .594

***FILL IN THE BLANK WITH or***   
  
x ≥ 2 \_\_\_\_ 4 >x \_\_\_\_ x< 8 \_\_\_\_ x ≤ 0 \_\_\_\_ x > 3 \_\_\_\_ x ≥ 1 \_\_\_\_ 6 >x \_\_\_\_ x< 9 \_\_\_\_ x ≤ 7 \_\_\_\_

(x ≤ 5)( x > 3)(x ≥ 1 )(x < 6) (6.2>)(.207<)( 3.32<)( 0.17<)( .168)(.6>) closed circle ≥ 2 ≤ 0 ≥ 1 ≤ 7   
**FRACTIONS**

Multiplying by a Whole Number 1. Write a fraction. Put the whole number over 1   
 5 x 2. Multiply straight across

x = 3. If answer is larger on top ÷ the bottom number into the top. The answer will be a whole

= **1**  number. Remainder will be the top number of the fraction. Bottom number doesn’t change.

Dividing by a Whole Number 1. Write a fraction. Put the whole number under 1   
 ÷ 2. **Multiply** straight across

x = 3. If answer is a proper fraction (smaller on top), use this fraction as the answer.

8 x x 9 x4 2 ÷ 4 ÷ 3 ÷

x = x = x  =   x =  x = x =

= **1**  = **1**  = **6**  = **1**

+  0 0 0 0 0 x x x x x x

0 0 0 0 + x x x x x 0 0 0 0   
 ***SHADE IN THE ANSWER***

+ + +   
 ***SOLVE***  6 x ? = x ? = 4 ÷ ? =

6 x x 7  x8 2 x 2 ÷ 4 ÷ 3 ÷ 8 ÷

x ? = x ? = ? x = 7 x ? = 10 ÷ ? = ? ÷ = ? ÷ =

+ = + = + ***WRITE FRACTION TO BE USED IN PLACE OF EACH WHOLE NUMBER***

x8 \_\_\_\_\_ 6 ÷ \_\_\_\_\_ 4 ÷ \_\_\_\_\_   
1 ÷ \_\_\_\_\_ x9 \_\_\_\_\_ x7 \_\_\_\_\_   
x3 \_\_\_\_\_ x2 \_\_\_\_\_ 8 ÷ \_\_\_\_\_  
7 ÷ \_\_\_\_\_ 5 ÷ \_\_\_\_\_ 9 ÷ \_\_\_\_

()(=1)()()()()(=3)(=1)(=4)(=1)()(=)()(=)(4)()(3)()()()()()()()()()()()()()()()()()()()

**PATTERNS** 21, 27, 33, 39 Which is the rule for this pattern? A. subtract 3 B. add 6 C. multiply by 2

***Identify the pattern missing value*** ***Identify the pattern missing value***

72, 60, 48, \_\_ , 24 subtract 12 36 10, 20, 40, 80, \_\_, \_\_\_,

1, 2, 3, 5, \_\_\_, \_\_\_, 21 11, 121, 11211, 1212121, 112121211

1, 4, 9, 16, 25, \_\_, \_\_\_, 64, 81 X0, XX0, XX00. XXX00. XXX000,

(multiply by 2 160 320)(find the next# by+the 2 before it 8 13)(separate the 1s w/2, then put a 1 on ea. End)(square of 1-9 36 49)  
(put one for the front, then one on the back)

**READING & WRITING EQUATIONS**

SIGNS TO **DIVIDE:   
quotient,** separate, per, out of, how many in, average, divide, into,    
 **÷** )Problems written with this sign ÷ are written in reverse order using this frame )  
 100 ÷ 5 = 5 ) 100  Division bar 1  **20** = 4 **1 + 9** = 10 = 2   
 ÷ **5 5** 5   
 2  
**√ 25**  = a number squared2 = 5 ∙ 5 =25 **√ 25**  = 5 **√ 16**  = 4 **√ 81**  = 9

SIGNS TO **MULTIPLY**:  **product** , combine equal amounts , twice , x **∙ \***

**of** of 30 =  x =  = 24

**( ) 2(9)** = 18 **3x 3x** = 6 x = 2 **5a** = 30 x = 6

**42 4 ∙ 4**  **23** 2 ∙ 2 ∙ 2= **102** 10 ∙ 10  
 16 4 ∙2 = 8 100

SIGNS TO **ADD** : the sum of , combine , total , more than , increase , +

SIGNS TO **SUBTRACT:** compare, **difference**, remainder, decrease, less than, how many less, how many more, -

SIGNS TO **EQUAL** **is** , are , was , were , will be , **the same as** , yields , sold for, **equivalent**

21 is 9 more than 12 8 times as many as 4 is 32 2 is 8 divided by 4 x multiplied by 10  
  **21 = 12 + 9 4 (8) = 32 2 = 8 10x**  
 4

**Jo receives cards for her birthday**. Sam receives 3 times as many Jo. Together they receive 44 cards. Express this information in an equation where j represents Jo. Jo Sam   
 j 3 times j = **j + 3j = 44**

Sam earns $12 per hour for 40 hours and $15 per hour for over time. Last week Sam earned $540.   
Write and equation using *h* for hours. **(40 x 12) + (*h* x 15) = 540**

**WRITE & SOLVE** 36 is 3 times as many as 12 6 times as many as 5 is 30

Jo paid $25 shipping on a new computer. She also purchased a printer for $150 with free shipping. Her total bill was $975. Write an equation that could be used to find the cost of (*c* ) the computer.

Sam saves his pocket change to spend on his birthday. He estimates that he saves $1 a day except for Saturdays when he saves $1.50. How many weeks will it take to save $50? Write and equation using *w*  for weeks.

36=3x12 6x5=30 c + 25 + 150 = 975 ( 1 x 6 + 1.50)w = 50  **ORDER OF OPERATIONS (P**lease **E**xcuse **M**y **D**ear **A**unt **S**ally) **P**: ( ) and division bars , **E:** exponents and roots , **M:** x and **D:** ÷ from , **A:** + and **S:** – from 

**10 + (5 x 3) 5 + 14 10 – 8 + 14 18** ÷ **9 + 3 (6) 18** ÷ (**9 + 3) (6)  
 7** 2 + 14 2 + 18 18 ÷ (12) (6)   
10 + 15 = 25 5 + 2 = 7 18 20 1.5 ( 6 ) = 9   
  
  
(17+ 15) x √9 = 14 – 42 ÷ 2 = 7 + 9 - 2 (6) = (8 + 8)-2 (4 - 1) = (3 + 5 )(5 – 2) - 24 =  335 – 23 ÷ 4 (6+2)= (5)(1+3)+7 = 82 – (9+9) = 8 + 12 = √81 + 62 ÷ (7 - 1) = 46 – 4 √9 =   
 17 – 2(4) 2 5-1  
 (96)(6)(4)(10)(16)(19)( 3)(23)( 10)(15)(34)

**ALGEBRA** SOLVE BY

**1.** SUBSTITUTION **18**  **+ 4** where **x = 9 6x – 13** where **x** is **5 8a + 9** where **a** is **5** and **b** is **7**   **x** 6(5) – 13 **b**  
 18 + 4 30 – 13 = 17 8(5) + 9 = 40 + 9 = 49 ÷ 7 = 7   
 9 2 + 4 = 6 7 7   
**2.** INVERSE – opposite operation When given the answer to a problem, do the inverse operation to solve   
**ADDITION IS THE OPPOSITE of SUBTRACTION MULTIPLICATION IS OPPOSITE of DIVISION** 4+x=27 **27-4**=23 5x=40 **40÷5**=8

**= 50 10 + 3x = 25 a + = 7 3( a + 12)= 81 5( 3a + 12)= 90** 3a + 36 = 81 15a + 60 = 90  
 x = 50 (10) 3x = 25 – 10 a + 14 = 7 (5) 3a = 81 – 36 15a = 90 – 60  
 x = 500 3x = 15 ÷ 3 a + 14 = 35 - 14 3a = 45 ÷ 3 15a = 30 ÷ 15  
 x = 5 a = 21 a = 15 a = 2

**3.** SIMPLIFYING – sometimes a problem doesn’t have a numerical solution

9a – 10b + 7a 4(2x+3y) 5(2+3y) 5e + 3(2e+3y) 52 x y 3 x 2 + 3y 3  x 2 x y 3   
 9a + 7a – 10b 8x + 12y 10 + 15y5e + 6e + 9y   
 **16a – 10b 8x + 12y 10 + 15y 11e + 9y** 52**y** 3 x 2 + 3y 3  **x** 2**y** 3

***WRITE & SOLVE*** 12 less than 36 is x 28 is 6 more than z 15 times as many as 4 is b   
   
n is the quotient of 22 and 11 The product of 8 and 3 reduced by 2

4 times as many as 3 is the same as the product of 2 and what number? 23 + 52 33 + 42

What is the sum of 9.50 and 3.75? 5( a + 6)= 270 b multiplied by 5

Billy’s Small Appliances has flat rate shipping of $19 on their $15 toasters. Write an equation showing the cost of an order totaling $304, where *t* equals the number of toasters.

Jo pays $78 for 6 tickets. What is the unit rate for each ticket?

Sam makes 10.75 an hour and gets time and a half for overtime. If he worked 8 hours plus 4 hours overtime, what would his total pay equal?

Bailey has a board 25 feet in length. She cuts the wood into 4 sections of equal length. How long is each section?

The quotient of a number and 10 is 50 The sum of 3.75 and a number is 25.25

(36 – 12 =x = 24)(28 = 6 + z/ 28 – 6= 22)(4x15=b= 60)(2211=n = 2)( 8x3-2= 20)(4x3=2n/ 12=2n/122=6)(8+25=33)(27+16=43)  
(9.50+3.75=13.25) (5a+30=270/270-305=48) (5b) (15t+19=304/304 – 1915= 19) ( 786= 13 )  
(10.75x8 + 410.75x1.5=86+64.50=150.50)( 254= 6.25) ( 10n= 50/50x10=500 ) ( 3.75+n= 25.25 / 25.25-3.75= 21.50 )

**GEOMETRY**

square four sides the same length rectangle 2 sides the same length  
 four right angles four right angles   
 two pair of parallel sides two pair of parallel sides  
 two pair of opposite sides the same length two pair of opposite sides the same length

parallelogram 2 sides the same length  
 two pair of parallel sides   
 two pair of opposite sides the same

**1**

parallel Lines perpendicular Lines line segment ray line

two lines keeping a lines at a 90 ͦ angle dot on both ends dot on one end arrows on both ends  
equal distance apart an arrow on the other

Right Angle = 90 ͦ (4 right angles shown) Straight Line = 180 ͦ

If the angle for a straight line is divided  
 into sections, the sections must = 180 ͦ  
  
60 ͦ ? the missing amount must be 120 ͦ 68 ͦ missing amount must be 22 ͦ to = 90 ͦ

***SOLVE***  135 ͦ ? 54 ͦ ? if one angle is 20 ͦ the other would = \_\_\_\_\_

If a+b = 155 ͦ a b c c = \_\_\_\_\_\_\_ How many 1 ͦ angles = a straight line?

Fill in each blank to equal a right angle   
\_\_\_ + 45 ͦ 15 ͦ +\_\_\_ \_\_\_ + 65 ͦ Fill in each blank to equal 180 ͦ  
 \_\_\_ + 110 ͦ \_\_\_ + 95 ͦ 150 ͦ +\_\_\_

Which of the these shapes have 4 right angles?   
 Which have two pair of opposite sides the same length?   
 Which have all sides of the same length?

Write the number of: lines \_\_\_ line segments \_\_\_ rays\_\_\_

Write the number of large dots on: lines \_\_\_ rays \_\_\_ line segments \_\_\_

135 + 45 = 180)(54 + 45 =90)(20+ 160 = 180)(155+25=180)(180 1 ͦangles = straight line)(45+45=90)(15+75=90)(25+65+90) (70+110=180) (95+85=180)(150+30=180)( square and rectangle)( parallelogram, square and rectangle)(square)(2lines)(5line segments) (2rays) (3) (4) (1)  
**AREA**

Area The amount of space inside a 2 dimensional figure **A = length x width 52** (aka base x height)  **2** **2**  
 A = 25 **4** A=8 **3** A=6

x = multiply straight across ? A= x =

What is the length of a rectangle that has an area of 45 and a width of 15 **A = length x width**  
 45 = L (15) 45 ÷ 15 = L 3= L

What is the width of a parallelogram that has an area of and a length of **A = length x width**  
 = x w =

What is the length of a rectangle that has an area of and a width of  = x L =

x = area x =  x = x = x =

***FILL IN THE MISSING AMOUNTS*** L x W = A L x W = A L x W = A

x = x = \_\_ x =

x **\_\_\_** = \_\_\_ x = x **\_\_\_** =

**VOLUME** 1  
 Volume The amount of space inside a 3 dimensional figure **2** V=(3)(2)(1)=6 OR V = Bh  
 3 length x width x height the Area of the Base x height

Length x Width = Area of the base x H = Volume   
L x W = A x H = V

5 7 **35** 3 **105** What dimensions could be used to form a right rectangular prism with a volume of 120  
2 8 2 Area of the base 24 and a height of \_\_\_\_\_\_\_  
9 2 6   
3 5 30 What dimensions could be used to form a right rectangular prism with a volume of 70  
6 4 192 Area of the base 35 and a height of \_\_\_\_\_\_\_

What dimensions could be used to form a right rectangular prism with a volume of 57 with an base areas of 19?

16 32 18 108 15 24 8 h = 3

**COORDINANT GEOMERTY**

Ordered pairs are numbers that show the position of a point on the coordinate plane (3, 1)   
 *y*  *x y* The horizontal line records *x* values. Positive to the right of the center cross and negative to the left  
 b   
 c a *x* The vertical line records *y* values. Positive above the center cross and negative below  
   
 d An ordered pair is written for point ***a*** by counting over (*x*) from the center cross to 3 and up 1*(y)* (3 , 1) Point ***b*** is located by counting over (*x*) from the center cross to -2 and up *(y)* 2 (-2 , 2) Point ***c*** is located one over (*x*) from the center but neither up or down *(y)* (-1 , 0)  
 Point ***d*** is located neither left or right (*x*) of the center but down *(y)* two (0 , -2)

A B C D ***PLOT*** ( 1, 2) (-3, 1) (0, -1) (2, 3)Which two coordinates are closest to each other?

Graph a point 3 to the right and 2 up. Write the co-ordiances ( , )   
Would adding this point create the third vertices (joints) of a triangle? yes or no

Graph a point 1 down and 3 to the left. Write the co-ordiances ( , )   
Would adding this point create the fourth vertices of a square? yes or no

Graph a point 3 down and 1 left. Write the co-ordiances ( , )   
Would adding this point create the third vertices of a triangle? yes or no  
  
(teacher must grade co-ordinate plane) ( 1, 2) (2, 3) (3,2) yes (-1, -3) no (-3, -1) yes

**GRAPHS**The graph shows the amount of rainfall of 4 weeks. Each X represents to total for one day.

x x How many days during the 4 week period did it rained of a inch?  
x x x x How many days did it rain less than inch during this period?   
x x x x x What is the difference between the greatest amount of rainfall and the   
x x x x x least amount of rainfall ?   
x x x x x How many times did it rain at least inch but less than inch?

***Display the data from the graphic above on this bar graph***

5   
4  
3  
2  
1

(5 )(13)( - = =1 )( 10)(teacher must grade graph)