St. Paul School
Summer 2018
Math Review & Practice Packet
for Students ENTERING 8th GRADE

Dear Students,

Over the summer it is common for students entering the eighth grade to forget some of the mathematics they have learned. For this reason, I have put together this review packet of practice materials. Completing this packet and practicing math over the summer will make the beginning of seventh grade math much easier. I strongly suggest that you space this work out over the summer; work on one section each week. Below are some additional guidelines:

- Work on one section of the packet each week.
- PENCIL ONLY!
- Show all work that cannot reasonably be done mentally; NO WORK NO CREDIT.
- Calculators should not be used.
- If you struggle with a problem just do your best and move on. Don't worry! This helps me identify the topics we need to review together in the fall.

This packet will be collected at the start of school and be counted as two assignment grades. In addition, students will take a quiz on this material to start the second week of the school year; the quiz will consist of identical problems from this packet.

Have a great summer!
Mrs. Drohan

P.S. I have also included a **PUZZLE PACKET**. The puzzles are perfect for taking on road trips or for rainy summer days. Feel free to work on these with your family and friends. Math is fun and it is always fun to puzzle things out with your friends. Enjoy!!

Pre-Algebra

Name_____ ID: 1

Assignment Week 1

Date_____ Period____

Evaluate each expression.

1) $(-7)-(-12)$

2) $1-10$

3) $(-3)+10$

4) $12+(-5)$

5) $6-(-1)$

6) $(-12)-(-8)$

7) $1+(-1)$

8) $(-10)+(-7)$

9) $(-6)-(-10)$

10) $3+6$

Pre-Algebra Name_____ ID: 1

Assignment

Date_____ Period____

Evaluate each expression.

1) $\frac{5 \cdot 2}{-1}$

2) $-4 + (-3)^2$

3) $-7 - (1 + 9)$

4) $\frac{30}{7 - 1}$

Solve each equation.

5) $-2 + \frac{m}{3} = 0$

6) $-2 + \frac{n}{8} = -3$

7) $2 + \frac{x}{9} = 3$

8) $4b + 4 = -32$

9) $2 + \frac{n}{1} = 2$

10) $2n - 1 = -7$

11) $\frac{n}{1} - 5 = -5$

12) $-x + 2 = 10$

13) $3 - 2n = -17$

14) $-4 + \frac{x}{8} = -3$

Pre-Algebra Name_____ ID: 1

Assignment Week 2 Date_____ Period____

Evaluate each expression.

1) $5 - 5$

2) $(-6) + 9$

3) $7 - (-3)$

4) $1 - 2$

5) $6 - (-9)$

6) $7 - 8$

7) $8 + (-2)$

8) $(-1) - (-12)$

9) $(-3) + 11$

10) $(-8) - 2$

Pre-Algebra Name_____ ID: 1

Assignment

Date_____ Period____

Evaluate each expression.

1) $\frac{-21 \cdot 2}{-7}$

2) $-\frac{14}{-6+4}$

3) $-6 - -3 \cdot 6$

4) $\frac{24}{1-4}$

Solve each equation.

5) $\frac{x}{8} + 2 = 1$

6) $-60 = 4 + 8x$

7) $0 = 1 + \frac{x}{6}$

8) $-5 + 5b = 35$

9) $23 = 6x + 5$

10) $6 = \frac{x}{3} + 3$

11) $\frac{r}{7} + 2 = 4$

12) $-r + 8 = 11$

13) $41 = 7n + 6$

14) $\frac{x}{-14} + 1 = 0$

Pre-Algebra

Name_____ ID: 1

Assignment Week 3

Date_____ Period____

Evaluate each expression.

1) $15 + 4 + (-2)$

2) $(-5) - 15 - (-8)$

3) $3 + 15 + (-11)$

4) $7 + (-12) + (-14)$

5) $(-15) - (-11) + (-6)$

6) $11 + 4 + (-14)$

7) $14 + 2 - 10$

8) $(-12) + (-1) - (-10)$

9) $8 + 1 - 11$

10) $4 + 10 + 3$

Pre-Algebra Name_____ ID: 1

Assignment

Date_____ Period____

Evaluate each expression.

1) $\frac{(-13)+3}{-10}-(-7)$

2) $(-6)\cdot(-5)-(10+8)$

3) $-\frac{3\cdot 3}{4-5}$

4) $7+(-3)^3-2$

Solve each proportion.

5) $\frac{7}{3}=\frac{8}{n}$

6) $\frac{7}{8}=\frac{8}{5k}$

7) $\frac{7}{r}=\frac{3}{5}$

8) $\frac{2}{3}=\frac{x}{2}$

9) $\frac{n}{7}=\frac{5}{4}$

Solve each equation.

10) $\frac{n}{4}+1=3$

11) $-3x+4=-5$

12) $-1=\frac{m}{8}-2$

13) $\frac{k}{2}+3=8$

14) $1-3k=25$

Pre-Algebra

Name_____ ID: 1

Assignment Week 4

Date_____ Period____

Evaluate each expression.

1) $11 - (-5) - (-1)$

2) $(-14) + (-7) - (-10)$

3) $3 - 6 + (-16)$

4) $7 + (-1) + 6$

5) $10 + (-6) - 16$

6) $(-13) + 3 - (-14)$

7) $2 - (-7) + (-3)$

8) $(-7) + 16 - 12$

9) $(-13) - (-9) + 1$

10) $(-7) + (-16) + 7$

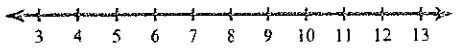
Pre-Algebra Name_____ ID: 1

Assignment

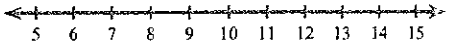
Date_____ Period____

Solve each inequality and graph its solution.

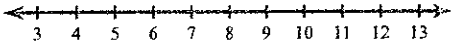
1) $4 > 2 + \frac{x}{5}$



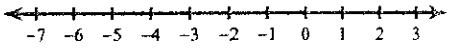
2) $\frac{n}{9} + 5 > 6$



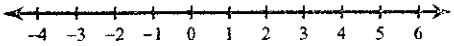
3) $16 \geq -2 + 3n$



4) $-2 + \frac{x}{1} \geq -2$



5) $-1 \geq -1 - 2m$



Write each as a percent. Round to the nearest tenth of a percent.

6) 0.08

7) 0.96

8) 0.36

9) 0.6

10) 0.54

Write each as a decimal. Round to the thousandths place.

11) 31%

12) 0.9%

13) 4%

14) 0.8%

15) 42%

Pre-Algebra

Name_____ ID: 1

Assignment Week 5

Date_____ Period____

Evaluate each expression.

1) $(-10) + (-12) - 13 + (-16)$

2) $10 + (-1) - (-5) + 15$

3) $(-10) + 2 - 12 - (-8)$

4) $(-7) + 14 - (-14) - (-1)$

5) $13 - (-3) - 12 + (-15)$

6) $15 - 7 - 7 - 12$

7) $(-5) - 1 - 14 + (-7)$

8) $(-3) + (-2) - (-7) - 11$

9) $(-14) + (-12) - (-7) - (-1)$

10) $9 + 13 - 2 + (-10)$

Pre-Algebra Name_____ ID: 1

Assignment

Date_____ Period____

Evaluate each expression.

1) $7(7-(-6))-3$

2) $\dfrac{1-7}{(-5)+7}$

3) $(-3)\cdot 6-(2-(-9))$

4) $(-4)-6-((-10)-6)$

Solve each equation.

5) $-4=\dfrac{-4+k}{5}$

6) $2=\dfrac{-3+b}{9}$

7) $7-6x=49$

8) $56=-4-3b$

9) $10+6b=-62$

10) $2=1-3m+1$

11) $-7=1-2n-2n$

12) $-2m-2m=4$

13) $-3a+1-2=-7$

14) $-1=-6x-1-2x$

Pre-Algebra

Name_____ ID: 1

Assignment Week 6

Date_____ Period____

Evaluate each expression.

1) $22 - (-1) - (-1) + 10$

2) $(-16) + (-8) - (-23) - 16$

3) $(-18) + 8 - (-2) + 13$

4) $2 + 25 - 10 + 21$

5) $(-21) + (-24) - (-17) - 12$

6) $9 + 19 + 14 + (-3)$

7) $17 - (-10) + 25 - 17$

8) $(-4) + (-22) - (-18) + (-19)$

9) $12 - (-20) + (-13) - (-12)$

10) $(-24) + 21 + (-25) + 3$

Pre-Algebra Name_____ ID: 1

Assignment

Date_____ Period____

Write each as a decimal. Use repeating decimals when necessary.

1) $\frac{17}{25}$

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

3) $\frac{3}{8}$

4) $7\frac{29}{100}$

5) $5\frac{1}{2}$

Write each as a percent. Use repeating decimals when necessary.

6) $\frac{3}{11}$

7) $\frac{1}{2}$

8) $\frac{2}{9}$

9) $6\frac{1}{2}$

10) $\frac{17}{50}$

Write each as a percent. Round to the nearest tenth of a percent.

11) 0.03

12) 0.72

13) 0.75

14) 0.63

15) 0.27

Pre-Algebra

Name_____ ID: 1

Assignment Week 7

Date_____ Period____

Evaluate each expression.

1) $16 - (-45) - (-7) - 36$

2) $(-44) + (-45) - 2 + 28$

3) $(-43) - 46 + (-31) + 3$

4) $33 + (-50) + (-27) - 10$

5) $24 - (-41) - (-13) - (-29)$

6) $3 - 50 - (-28) + (-50)$

7) $16 - (-7) - (-9) - 34$

8) $(-8) + 41 + (-17) + (-7)$

9) $(-24) - 16 - 22 - (-25)$

10) $(-25) - (-50) + (-10) - 15$

Pre-Algebra

Name_____ ID: 1

Assignment

Date_____ Period____

Evaluate each expression.

1) $(-5) - ((-10) + 2) - (-2)$

2) $(2 - 1)((-4) - 7)$

3) $8 - (8 + 5 \cdot 3)$

4) $\frac{14 \cdot 2}{5 - 9}$

Solve each equation.

5) $12 + 8x = -(2 - 4x) + 2x$

6) $8(1 + 6n) = 5n - 35$

7) $-34 + 7a = 5(a - 8)$

8) $-7x - 33 = -4(2 + 8x)$

9) $-8(4n + 1) + 4n = -8 - 2n$

10) $-20 - 4x = -2(7 + x)$

11) $-6(n + 4) = 4n - 34$

12) $-4(-3x - 3) = -36 + 6x$

13) $-3(5n - 2) = -24 - 5n$

14) $38 + 4x = 3(1 + 3x)$