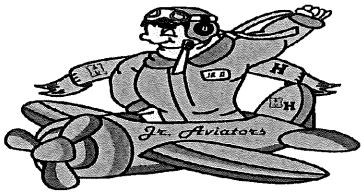


"Home of the JUNIOR AVIATORS!"

Mr. Joseph Mastropietro, HHMS Principal
Mr. Frank D'Amico, HHMS Vice Principal

Junior Aviator Parents/Guardians,

The attached packet is for all 6th grade students that are in Mrs. Russo/Mrs. Pellegrino's Math classes. As you know, there has been a long-term substitute teaching these courses over the last two months. Until the school building reopens, the expectation is for your child to complete the attached packet. The reason for the hard-copy packet being sent home is because the long-term substitutes do not have a Google Classroom set up, as do the other classes. For these particular class periods, the students will NOT need to log in to a Google Classroom. However, they are still obligated to do so for their other courses.

All work must be shown for each section so that we could review and provide the necessary feedback where your child may have had difficulties. **Please note:** If you do not have the ability to print the attached Mathematics packet, your child may utilize notebook paper to do their work. This should be submitted upon our return to school. Please keep in mind that it is very important that all work is shown in order to receive full credit. If your child has any issues or problems with the packet, please encourage them to email me at mastropietroj@hhschools.org. I will be able to assist them. Also, I will also be emailing the students to check in on them while we are not in the building.

Respectfully,

Joseph Mastropietro

Joseph Mastropietro
Principal
Hasbrouck Heights Middle School

Addition /Subtraction– Show all work.

1. $827 + 2098 =$ _____

2. $32.45 + 606 =$ _____

3. $0.1414 + 77.4 =$ _____

4. $7.71 + 9402 =$ _____

5. $4165 + 2.4179 =$ _____

6. $138.7 + 2.0786 =$ _____

7. $2{,}008 - 987 =$ _____

8. $70{,}207.9 - 789.3 =$ _____

9 $2.098 - 1.34 =$ _____

10. $78{,}003.07 - 45{,}009.7 =$ _____

11. $7{,}090.98 - 3{,}567.7 =$ _____

12. $3 - 0.089 =$ _____

Multiplication/Division – Show all work.

1. 851 * 8 = _____

2. 9.2 * 0.74 = _____

3. 0.062 * 57 = _____

4. 709 * 0.35 = _____

5. 8,131 ÷ 3 = _____

6. 2,754 ÷ 81 = _____

7. 24620 ÷ 240 = _____

Give answers as a decimal rounded to the hundredth place if needed.

8. 36.8 ÷ 4 = _____

9. 4.28 ÷ 70 = ____

Decimal Multiplication and Division

1. **Circle the best estimate for each product.**
   a. 32.05 * 7.89 = 25 250 2500
   b. 460.32 * 0.093 = 40 400 4000
   c. 0.98 * 90.07 = 9 90 900
   d. 260.01 * 0.004 = 1 10 1000
   e. 849.05 * 6.043 = 50 500 5000

2. **Write a number sentence for each problem. Then solve each problem.**

a. Judy rides her bike for an average speed of 11.8 miles per hour. At that speed, about how many miles can she ride in 6 ½ hours?
Number sentence_____ Solution_____

b. Catherine types at an average rate of 1.25 pages per quarter hour.
If she types for 2 ¾ hours, about how many pages can she type?
Number sentence_____ Solution_____

c. Find the area in square meters of a rectangle with length of 1.47 m and width 2.09 m.
Number sentence_____ Solution_____

3. **Place the decimal point in each of the following products:**

a. 14.09 * 3.82 = 5 3 8 2 3 8
b. 7.8 * 123.6 = 9 6 4 0 8
c. 18.05 * 2.22 = 4 0 0 7 1
d. 34.06 * 9.05 = 3 0 8 2 4 3
e. 47.1 * 0.006 = 2 8 2 6

Round the following number to the ten-thousand place.

1. 12,890 _____
2. 890 _____
3. 709,934_____
4. 600,099_____
5. 1,678,908_____
6. 599,008 _____

Round the following to the hundredths place.

1. 102.305_____
2. 3.0973_____
3. 0.99703_____
4. 7.0342_____
5. 56.09978_____
6. 12.70376_____

Estimate each problem. Show how you arrive at your estimation.

1. 32,037.2 * 34 = _____
2. 15,993.45 – 989.034 = _____
3. 709 + 6,098 + 23.78 = _____
4. 245,347 / 786 = _____
5. 0.983 * 90.78 = _____
6. 3 / 8 = _____
7. 209,789 * 456,098 = _____
8. 7.098 + 34.078 + 67.45 + 798 = _____
9. 9.8 * 89.5 = _____
10. 78,003 / 207 = _____

Adding or Subtracting Fractions and Mixed Numbers

Add or subtract. Write each answer in simplest form. If possible, write answers as mixed numbers or whole numbers.

$3\frac{1}{12} + 2\frac{5}{12} =$ _____ $2\frac{5}{6} + 1\frac{4}{6} =$ _____ $4\frac{6}{8} - 3\frac{2}{8} =$ _____

$5\frac{1}{5} - 2\frac{3}{5} =$ _____ $8 - 6\frac{1}{3} =$ _____

Add or subtract.

4. $\frac{1}{3} + \frac{1}{2}$ _____

5. $\frac{1}{2} + \frac{1}{6}$ _____

6. $\frac{3}{10} - \frac{1}{5}$ _____

7. $\frac{7}{16} - \frac{1}{4}$ _____

8. $\frac{5}{6} - \frac{3}{8}$ _____

9. $\frac{7}{10} + \frac{1}{4}$ _____

10. $\frac{2}{3} + \frac{3}{10}$ _____

11. $\frac{3}{8} - \frac{1}{10}$ _____

Make a factor tree for each number. Write the prime factorization using exponents w needed.

1. 36

2. 100

3. 49

4. 78

5. 324

6. 141

Area and Perimeter

Area of a rectangle = length * width Or A = l * w Or A = b * h

1. Wanda is helping her mother to make a vegetable garden in the shape of a rectangle 4 feet by 8 feet. Draw a rectangle with those dimensions if it helps.

   a. Wanda wants to put a fence around the vegetable garden. How many feet of fence does she need? _____ft.

   b. What is the area of this garden? (Circle one.)
   32 ft. 144 sq. ft. 32 sq. ft. 24 ft.

   c. Wanda measured the side that is 4 feet long. How many inches is that?_____in.

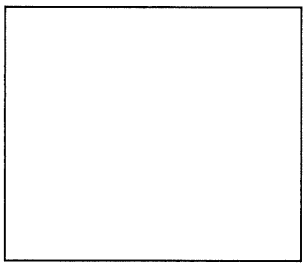
2. Wanda suggested making a flower garden in the shape of a square 6 ft. by 6 ft. Draw a square with those dimensions if it helps.

   a. What will the area and perimeter of this garden be?
   Area_____ Perimeter_____

b. Wanda wants to plant roses at least 3 feet apart. What is the largest number of rose plants she can fit into the square garden? _____

Challenge

3. Divide the square at the bottom of the page into 3 triangles that have the following properties:
   - Two triangles have the same area
   - The third triangle has twice the area of either of the others.



Fractions, Decimals, and Percents, More or Less

Fill in the blank with either an =, ›, or ‹ symbol.

1. $\frac{4}{5}$ _____ 80%

2. $\frac{3}{8}$ _____ 50%

3. 20% _____ 0.2

4. 0.17 _____ 17%

5. 46% _____ $\frac{1}{2}$

6. 81% _____ $\frac{81}{100}$

7. $\frac{3}{4}$ _____ 75%

8. 1.23 _____ 123%

9. 0.33 ____ 30%

10. $\frac{3}{10}$ _____ 30%

11. $\frac{5}{6}$ ____ 95%

12. 15% ____ $\frac{3}{20}$

13. 40% ____ $\frac{2}{5}$

14. 65% ____ 0.65

15. 0.125 ____ 12 ½ %

16. 60% ____ $\frac{2}{3}$

17. 10% ____ $\frac{1}{8}$

18. 0.45 ____ 40%

19. $\frac{1}{4}$ ____ 25%

20. 2 ½ ____ 250%

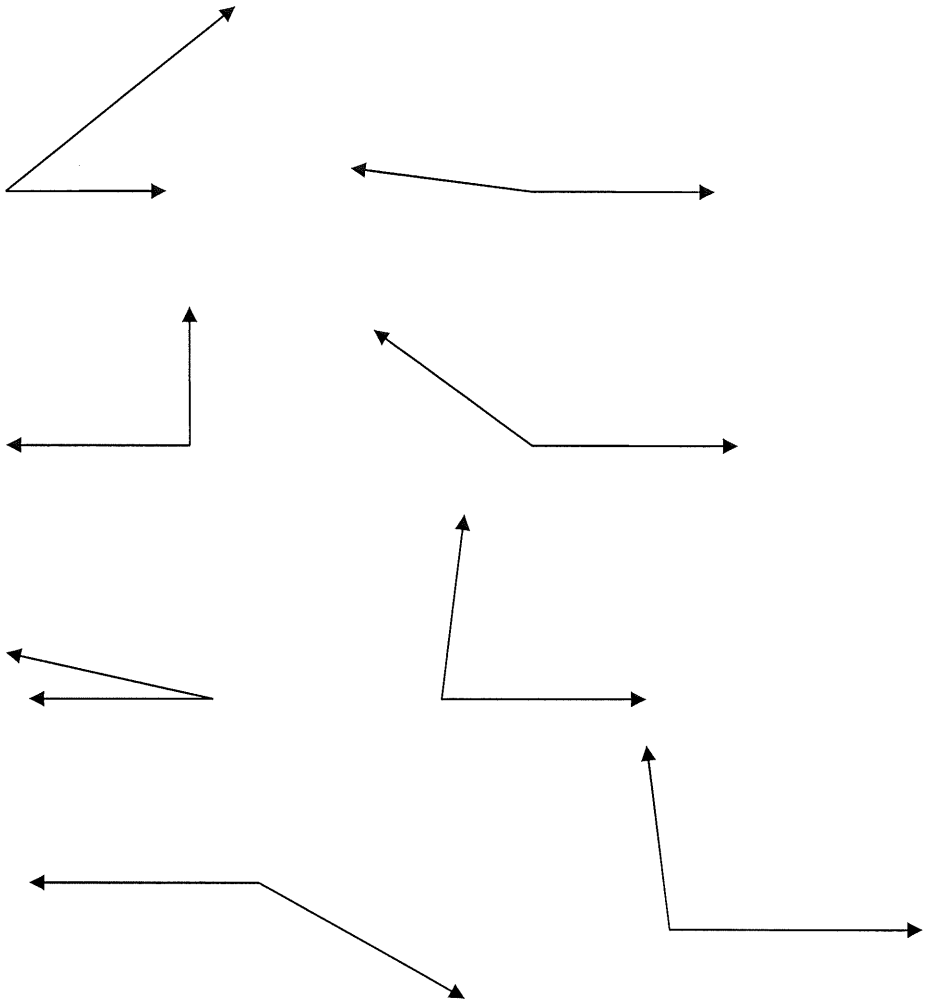
21. 90% ____ $\frac{4}{5}$

22. $\frac{3}{25}$ ____ 15%

23. $\frac{2}{3}$ ____ 66 2/3 %

24. $\frac{19}{20}$ ____ 99%

*Classify them as acute, obtuse, right, or straight angles.



Many Names – One Amount

Decimal	Simplest Form Fraction	Percent
0.35		
	3 / 4	
		50%
	1 / 5	
0.04		
	13 / 20	
		100%
		25%
1.50		
0.8		
	13 / 50	
		1%
0.98		
	9 / 25	
		13%

Solve the following rate problems using a rate table.

1. Susie was so excited she was going to get to work at her favorite ice cream store over the summer. Her boss told her he would pay her $6.00 per hour. Using that rate of pay, complete the rate table below.

Hourly Pay	Hours Worked
$6	1
	2
	4
$45	

2. The old truck Mr. Jones has gets terrible gas mileage. Based on the rate given in the table, fill in the rest of the table.

Miles traveled	Gallons of Gas Used
	1
	2
60	5
72	
	10.5

During football games at WA, the concession stand sells lots of candy. The students' favorite is Skittles. Complete the rate table below.

Bags of Skittles	1	2	3		15	
Money spent		$2.50		$12.50		$25.00