June 2019

Dear Parent and Student (incoming Grade 4 students),

The Wallington Board of Education has approved a ***MANDATORY*** **Summer Mathematics Program** for all students entering grades 4-8 for the 2019-2020 school year. We encourage all parents and students to fully participate in this important program that is designed to help and improve math skills during the summer months.

Attached to this letter; please find a **Grade Level Math Packet** that should be completed by your child during the summer vacation.

Many educators support the idea that children learn best when instruction is continuous. The long summer vacation disrupts the "rhythm of instruction", leads to forgetting, and requires time to be spent reviewing earlier learned material when students return to school in September. This packet is designed to help review and reinforce math skills that your child has already learned during the current school year that he/she just completed. *It is meant to completed over the summer time frame and NOT IN ONE SITTING!*

The packet should be returned to school on the first day of the new school year and will be reviewed in September by your child's math teacher. ***Please be aware that the completed packet will be counted as a homework grade.***

It is important to return the math packet so that your child receives credit for the work completed over the summer. It is our hope that participation in this program will provide your child with the opportunity to reinforce and maintain their math skills. ***Please practice your multiplication facts this summer. It is very important for success in 4th Grade!***

Thank you for your support and cooperation for this important summer academic program. Should you have any questions, please feel free to contact my office.

Sincerely,

Nancy Giambrone

Principal

Frank W. Gavlak School

Part 1: Multiplication and Division
Word Problems

Solve each problem. Show the equation you used to find your answer.

1. Emily had 42 pencils to share with her 6 friends equally. How many pencils would she give to each one of her friends?

2. Joey, Jake, and John each have 9 marbles. How many marbles do they have altogether?

3. Zach is putting his books away on a bookcase. There are 5 shelves on the bookcase. Zach has 30 books. How many books should Zach put on each shelf so that each shelf has an equal number of books?

4. A tray of muffins contains 6 cups of blueberries. How many cups of blueberries are in 9 trays?

5. Megan had 48 beads. Each bracelet has 8 beads. How many bracelets does she have?

6. Sophia has 36 stickers and she wants to give 4 stickers to each of her friends. How many friends receive stickers?

Find the Unknown Factor

1. $a \times 2 = 18$ — $a =$ _____
2. $28 = 4 \times m$ — $m =$ _____
3. $y \times 3 = 9$ — $y =$ _____
4. $36 = z \times 6$ — $z =$ _____
5. $9 \times p = 27$ — $p =$ _____
6. $w \times 8 = 48$ — $y =$ _____

Multiply by 10's

1. 80 x 9 = _____
2. 70 x 7 = _____
3. 90 x 4 = _____
4. 60 x 8 = _____
5. 50 x 6 = _____
6. 20 x 5 = _____
7. 40 x 3 = _____
8. 80 x 8 = _____

Related Facts

Write the related facts for the set of numbers.

1. 3, 7, 21

_____

_____

_____

_____

2. 7, 8, 56

_____

_____

_____

_____

3. 6, 6, 36

_____

_____

_____

_____

Part 2: Place Value

Write the number in standard form.

1. 3,000 + 400 + 20 + 4 _____
2. Six thousand , two hundred thirty_____
3. 9,000 + 800 + 40 + 1 _____
4. One thousand, seventy five _____
5. Seven thousand, one hundred five_____

Write the value of the underlined digit.

6. 6,<u>7</u>40

_____

7. 4,5<u>9</u>3

_____

8. <u>1</u>,750

_____

9. 6,<u>4</u>13

_____

Comparing numbers. Write <, >, or = in the ___

1. 576 ___ 567
2. 490 ___ 409
3. 575 ___ 575
4. 2,145 ___ 2,245
5. 760 ___ 1,760
6. 1,807 ___ 807

<u>Part 3: Fractions</u>

Compare each fraction using >,<,=

1. ⅓ _____ ⅙
2. ¼ _____ ½
3. ¼ _____ ⅓
4. ⅔ _____ ⅓
5. ⅙ _____ ½
6. ¼ _____ ¾

7. Michelle and Greg went out for pizza. Michelle ate ¼ of her pizza and Greg ate ½ of his pizza. Who had more leftovers for lunch the next day? **Explain by drawing a model and using words.**

Equivalent Fractions

Write an equivalent fraction for each fraction provided.

1. ¾ = _____

2. ½ = _____

3. ⅓ = _____

4. ⅔ = _____

5. ¼ = _____

Part 4: Addition and Subtraction

Show your work and solve.

1. Laura traveled 492 miles to get to her vacation house. After that, she traveled 463 miles. How many miles did she travel in all?

2. Melanie drove 814 miles to Florida. Kim drove 326 miles to Florida. How many more miles did Melanie drive than Kim?

3. The school store had 853 pencils. They sold 495 pencils. How many pencils do they have left to sell?

Directions: Write each problem vertically before solving.

4. 549 + 715 =

5. 726- 352 =

6. 143 + 76 + 105=

7. 834 - 399 =

8. 1,000 - 548 =

Part 5: Area and Perimeter

Area: Length x Width
Perimeter: add all the sides

1.Natalia has a garden that is 6 feet long and 4 feet wide. What is the area of the garden?

2. A rectangle has two side lengths of 10 inches and two side lengths of 8 inches. What is the perimeter of the rectangle? Draw a model to solve.

3. A jewelry box has side lengths of 4 cm and 8 cm. What is the area of the jewelry box?

4. A rectangle has two side lengths of 5 inches and two side lengths of 7 inches. What is the perimeter of the rectangle? Draw a model to solve.

Multiplication Facts

6 x 4 =	5 x 2 =	4 x 2 =	7 x 9 =	4 x 8 =	5 x 4 =	3 x 7 =
6 x 3 =	9 x 3 =	3 x 2 =	8 x 2 =	9 x 3 =	1 x 9 =	7 x 7 =
7 x 8 =	9 x 3 =	7 x 2 =	7 x 8 =	2 x 5 =	3 x 2 =	2 x 7 =
5 x 7 =	2 x 3 =	9 x 5 =	8 x 3 =	2 x 9 =	1 x 9 =	4 x 9 =
8 x 4 =	4 x 8 =	7 x 5 =	9 x 7 =	6 x 2 =	2 x 4 =	9 x 3 =
5 x 7 =	2 x 4 =	9 x 9 =	7 x 3 =	4 x 5 =	4 x 5 =	2 x 9 =
8 x 5 =	8 x 3 =	9 x 4 =	9 x 4 =	7 x 9 =	6 x 4 =	2 x 8 =
5 x 2 =	3 x 9 =	6 x 3 =	6 x 8 =	8 x 5 =	9 x 9 =	3 x 8 =
12 x 5 =	9 x 2 =	7 x 7 =	3 x 6 =	8 x 6 =	4 x 6 =	5 x 6 =