WELCOME TO 6TH GRADE MATH
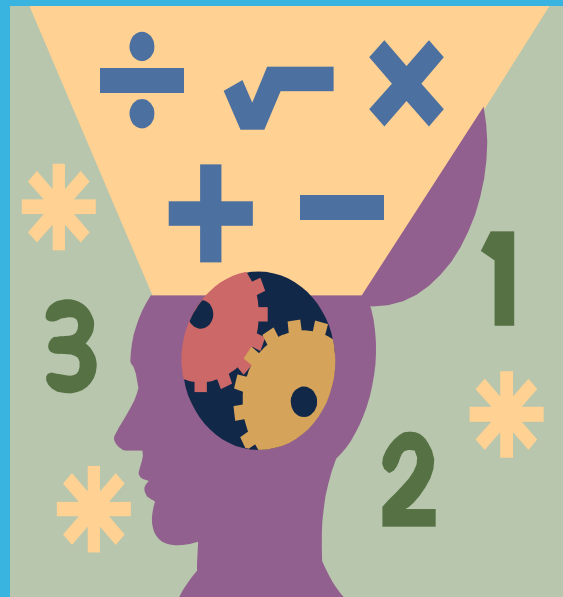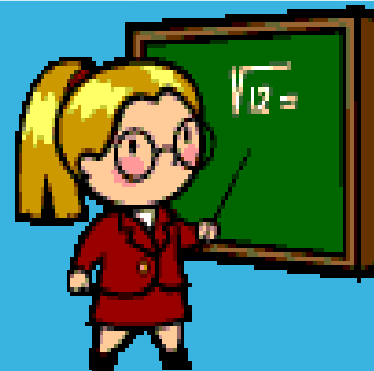
MRS. DALE
ROOM 102

THIS YEAR STUDENTS WILL LEARN:

- **Factors and multiples**

- **Operations with decimals and fractions**

- **Expressions and equations**

- **Statistics**

- **Geometry**

- **Variables and Patterns**

- **Ratio and proportional relationships**
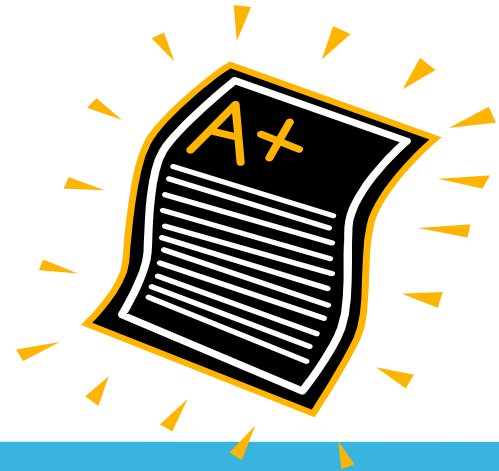
GRADING POLICY

Assessment (Tests/Quizzes/Projects) – 70%
- 1 test = 2 quizzes

Class Performance – 10%
- Effort
- Compliance
- Behavior
- Cooperation
- Participation

Homework – 20%

5ᵀᴴ AND 6ᵀᴴ GRADE GRADING COMPARISON

5th Grade
- Homework - 20%
- Assessments – 50%
- Classwork – 20%
- Effort – 10%

6th Grade
- Homework - 20%
- Assessments – 70%
- Class Performance – 10%

Example: Suppose a student performed exactly the same in 5th and 6th grade. Let's see how the grade weighting affects the students average!

5th Grade:
Homework: 100%
Classwork: 100%
Effort: 100%
Test Grades:
86
78
91
64
Test Average of 79.75

5th Grade Final Average:
$100 \times .20 = 20$
$100 \times .20 = 20$
$100 \times .10 = 10$
$79.75 \times .50 = 39.875$
Final Grade:
89.825 or **90%**

6th Grade:
Homework: 100%
Class Performance: 100%
Test Grades:
86
78
91
64
Test Average of 79.75

6th Grade Final Average:
$100 \times .20 = 20$
$100 \times .10 = 10$
$79.75 \times .70 = 55.825$
Final Grade:
85.825 or **86%**

HOMEWORK:

GENERAL MATHEMATICS GRADING RUBRIC (for homework)

3 Point Response

- shows <u>all</u> <u>complete</u> work (graphs, calculations, tables, pictures…)

- answers ALL parts of the question(s)

2 Point Response

- shows <u>partial</u> work of the problem(s)

- answers most parts of the question(s)

1 Point Response

- shows <u>limited to almost no</u> work of the problem(s)

0 Point Response

- shows <u>no</u> work or effort

Students will earn a **0** for any work that is not turned in on time, with **no exceptions**.

SAMPLE HOMEWORK

Name : _____   Score : Homework

Teacher : _____   Date : _____

Order of Operations

1) $(11 - 4)^2 + (10 - 12 \div 3)$

2) $(14 + 52 - 6) \div 6 - 6^2$

3) $(8 + 3)^2 + (14 + 8 \div 2)$

4) $(18 - 8) \times (9 + 4) - 8^2$

5) $(14 + 70 - 6^2) \div (15 - 3)$

6) $(10 + 39 - 5^2) \div (19 - 7)$

7) $(14 + 14 - 4) \div 4 + 5^2$

8) $4 \times (3 \times 10 + 8^2) + 6$

9) $(15 - 6) \times (12 - 4) + 2^2$

10) $4 \times (7 \times 3 + 9^2) - 4$

3-POINT HOMEWORK

Order of Operations

1) $(11 - 4)^2 + (10 - 12 \div 3)$

$7^2 + (10 - 12 \div 3)$

$7^2 + (10 - 4)$

$7^2 + 6$

$49 + 6$

55

2) $(14 + 52 - 6) \div 6 - 6^2$

$(66 - 6) \div 6 - 6^2$

$60 \div 6 - 6^2$

$60 \div 6 - 36$

$10 - 36$

-26

3) $(8 + 3)^2 + (14 + 8 \div 2)$

$11^2 + (14 + 8 \div 2)$

$11^2 + (14 + 4)$

$11^2 + 18$

$121 + 18$

139

4) $(18 - 8) \times (9 + 4) - 8^2$

$10 \times (9 + 4) - 8^2$

$10 \times 13 - 8^2$

$10 \times 13 - 64$

$130 - 64$

66

5) $(14 + 70 - 6^2) \div (15 - 3)$

$(14 + 70 - 36) \div (15 - 3)$

$(84 - 36) \div (15 - 3)$

$48 \div (15 - 3)$

$48 \div 12$

4

6) $(10 + 39 - 5^2) \div (19 - 7)$

$(10 + 39 - 25) \div (19 - 7)$

$(49 - 25) \div (19 - 7)$

$24 \div (19 - 7)$

$24 \div 12$

2

7) $(14 + 14 - 4) \div 4 + 5^2$

$(28 - 4) \div 4 + 5^2$

$24 \div 4 + 5^2$

$24 \div 4 + 25$

$6 + 25$

31

8) $4 \times (3 \times 10 + 8^2) + 6$

$4 \times (3 \times 10 + 64) + 6$

$4 \times (30 + 64) + 6$

$4 \times 94 + 6$

$376 + 6$

382

9) $(15 - 6) \times (12 - 4) + 2^2$

$9 \times (12 - 4) + 2^2$

$9 \times 8 + 2^2$

$9 \times 8 + 4$

$72 + 4$

76

10) $4 \times (7 \times 3 + 9^2) - 4$

$4 \times (7 \times 3 + 81) - 4$

$4 \times (21 + 81) - 4$

$4 \times 102 - 4$

$408 - 4$

404

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2-POINT HOMEWORK

Order of Operations

1) $(11 - 4)^2 + (10 - 12 \div 3)$

455/₃

2) $(14 + 52 - 6) \div 6 - 6^2$

-26

3) $(8 + 3)^2 + (14 + 8 \div 2)$

139

4) $(18 - 8) \times (9 + 4) - 8^2$

66

5) $(14 + 70 - 6^2) \div (15 - 3)$

4

6) $(10 + 39 - 5^2) \div (19 - 7)$

2

7) $(14 + 14 - 4) \div 4 + 5^2$

31

8) $4 \times (3 \times 10 + 8^2) + 6$

382

9) $(15 - 6) \times (12 - 4) + 2^2$

76

10) $4 \times (7 \times 3 + 9^2) - 4$

404

Math-Aids.Com

1. $49 + -66 = 48\,2/3$

2. $60 \div -30 = 30$

3. $121 + 11 = 132$

4. $10 \times 13 - 64 = 66$

5. $48 \div 12 = 4$

6. $24 \div 12 = 2$

7. $24 \div 29 = .82$

8. $9 \times 8 + 4 = 76$

9. $4 \times 102 - 4 = 404$

1-POINT HOMEWORK

Order of Operations

1) $(11 - 4)^2 + (10 - 12 \div 3)$

7   4

55

2) $(14 + 52 - 6) \div 6 - 6^2$

66   36

-26

3) $(8 + 3)^2 + (14 + 8 \div 2)$

11^2 6   4

139

4) $(18 - 8) \times (9 + 4) - 8^2$

66

5) $(14 + 70 - 6^2) \div (15 - 3)$

$(84 - 36) \div 12$

48

4

6) $(10 + 39 - 5^2) \div (19 - 7)$

25   8

2

7) $(14 + 14 - 4) \div 4 + 5^2$

31

8) $4 \times (3 \times 10 + 8^2) + 6$

$4 \times (30 + 8^2) + 6$

382

9) $(15 - 6) \times (12 - 4) + 2^2$

9   8

76

10) $4 \times (7 \times 3 + 9^2) - 4$

4×21 81

404

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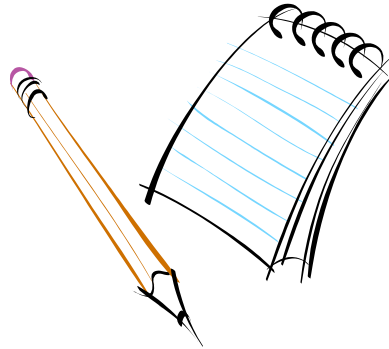
COMPUTATION

Computation Homework/Computation Quizzes
- 2 problems a night except on Friday when the question is open ended
- Use 4-square on the open-ended question
- Will not be announced each day – students need to just know that they are part of the homework
- Computation quiz about every two weeks – will not be announced

SAMPLE COMPUTATION HOMEWORK

Name: _____   Math

Date: _____   Period: _____

Weekly Review Homework

Week of: October 1ˢᵗ

Monday: Find the sum, difference, product, or quotient. 1) $23 + 3,874 + 7,655$ 2) $23,098 - 5,249$
Tuesday: Find the sum, difference, product, or quotient. 1) $1,763 \times 87$ 2) $2,321 \div 64$
Wednesday: Find the sum, difference, product, or quotient. 1) $45,951 - 765$ 2) $659 + 32,862$
Thursday: Find the sum, difference, product, or quotient. 2) $4,887 \div 16$ 2) $7,921 \times 18$
Friday: Solve the following word problem and explain your answer. Make sure your response is a 3-point response. 1) During the sixth-grade camping trip, nine students can sleep in each cabin. All boys or all girls must sleep in each cabin. If there are 70 boys and 76 girls in the sixth grade, how many cabins will be needed to house all of the students?

4-SQUARE MODEL IS USED TO ANSWER WORD PROBLEMS.

Key

Open-Ended Word Problems:

Gretchen is packing books in boxes to move. She has 118 books, and each box holds 6 books. How many boxes will she need to move all the books?

Clues or Givens

- 118 books

- Each box holds 6 books

-

-

Equation
Split this box into sections if there are multiple parts to the question. Label those parts with A, B, C or 1, 2, 3!

$118 \div 6$

$$6 \overline{)118} \quad 19\,R4$$

$$-6\downarrow$$

$$58$$

$$-54$$

$$4$$

Answer with a Restate
Before you begin...restate the question and leave a blank with a label for your answer.

Gretchen will need __20__ boxes to move all of her books.

Drawing/Explain/Check
This is where you support your work, clarify anything that you did, and/or check your work!

I divided 118 by 6 to get 19 R4. I know Gretchen can't use only 19 boxes because she needs somewhere to put the last 4 books. Therefore, she needs 20 boxes.

$$^{5}19$$

$$\times\ 6$$

$$114$$

$$+\ \ 4$$

$$118$$

IT IS IMPORTANT TO STUDY!

Expressions and Equations Unit Test
Wednesday, April 10

Make sure you know how to:

- Create a table from a graph
- Analyze data on a graph
- Create a table based on a real life situation
- Write an equation from a real life situation
- Substitute a value into an equation and solve
- Create a graph from a table
- Identify dependent and independent variable
- Graph inequalities on a number line
- Write inequalities based on real life situations
- Solve one step equations with all operations using the steps REWRITE, SOLVE, CIRCLE

Studying Suggestions:

- ☐ Redo your homework problems, using your corrected answers from class to check your work.
- ☐ Redo any problems that have been completed in class.
- ☐ Review/reread any reference pages that were provided in class.
- ☐ Review/make flashcards for any new math vocabulary introduced in class.
- ☐ Redo any Do Now assignments that cover the topics on your upcoming assessment.
- ☐ Practice additional problems from the 6th Grade EnVisions math book. Go to www.pearsonsuccessnet.com to access the book.
- ☐ Go to Study Island and practice the lessons that are similar to the topics covered in class. (www.studyisland.com)
- ☐ Go to TenMarks and practice the lessons that are similar to the topics covered in class. (www.tenmarks.com)
- ☐ Use additional math websites from my webpage or the middle school's math department webpage to practice the skills on your upcoming assessment.
- ☐ Ask a parent, guardian, friend or sibling to create additional problems similar to ones done in class for you to practice. If needed use a calculator to check your calculations.
- ☐ Attend the MAC center to ask questions and review topics that were more difficult for you.

BASIC FACTS

- Please help your child become familiar with their basic addition, subtraction, multiplication, and division facts if they are not already.
- Calculators will not be permitted

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

MATH HELP AFTER SCHOOL AT THE MAC CENTER:

Monroe Township Middle School
MATH ASSISTANCE CENTER   Permission Form
Return this form to your Math Teacher!

My child, _____ , *will be* attending the program on

_____ and will take the 4:15 bus home.

　　　Day, Date

My child needs help on the math skill/concept of _____.

I understand that there are a limited number of openings for the program. Students who sign up

for a session and do not attend, may jeopardize participation in future sessions.

Parent Signature _____   Parent E-mail _____

Parent Phone Number (Home): _____   (Cell): _____

TUESDAY Ms. Lordi = 6th Ms. Budrewicz = Algebra	WEDNESDAY Ms. Lauretta = 7th Ms. Zimmermann = 8th	THURSDAY Ms. Chawla = 6th Ms. Pike = 7th Ms. Berry = 8th Ms. Steffero = Alg./Geometry
Go to the Cafeteria at the beginning of the period to meet your teacher		
October 8	October 9	October 10
October 15	October 16	October 17
October 22	October 23	October 24
October 29	October 30	October 31
Teacher In-service & Teacher Convention		
November 12	November 13	November 14
November 19	November 20	November 21
Parent-Teacher Conferences & Thanksgiving		
December 3	December 4	December 5
December 10	December 11	December 12
December 17	December 18	December 19
Winter Break!		
January 7	January 8	January 9
January 14	January 15	January 16
January 21	January 22	January 23
January 28	January 29	January 30
February 4	February 5	February 6
February 11	February 12	February 13
February 18	February 19	February 20
February 25	February 26	February 27
March 4	March 5	March 6
March 11	March 12	March 13
March 18	March 19	March 20
March 25	March 26	March 27
April 1	April 2	April 3
April 8	April 9	April 10
Spring Break!		
April 22	April 23	April 24
NJ ASK for Grades 6, 7, 8		
May 6	May 7	May 8

LOOKING FORWARD TO A GREAT YEAR WITH YOU AND YOUR CHILDREN!