

# Welcome to Mrs. Melia's Math Class

**Dear Students**,

This packet is part one of your summer assignment. It is designed to help you retain the information you learned in 4th grade. For this practice to be effective, work on these exercises for 15 minutes per day. On the top of each page or work or your packet please write the date to remind yourself to space out the packet during the summer. Do not try to complete this packet in one day. All work should be completed on loose leaf paper and will be collected on the first full day of school. It is not necessary to print out this packet, however, feel free to do so if it is easier for you. Any loose leaf should be stapled to the packet. Also some topics may be new to you. Allow yourself to be challenged. Try it out and do your best. Remember to always be resourceful. If you forgot a topic, look it up online or in an old notebook. The packet will be graded as your first homework grade.

Part two (for those in accelerated math) will be to create a mini-lesson on any of the following topics and complete each of the four parts to be handed in and graded as your first project grade.

Topics:	Parts of the Lesson:
1. Multiplying with decimals	1. Introduction
2. Multiplying with 3 digits	2. Steps, procedure and notes
3. Operations with money	needed to teach the topic.
( add, subtract, multiply and	3. Examples with work shown to
divide)	be taught to the class.
	4. Activity such as a worksheet,
	game (can be from online) etc.

### Have a safe, healthy and fun filled summer!

### Mrs. Melia

\*Reminder - Practicing multiplication (up to 12) and division facts are VERY important!

## Entering 5<sup>th</sup> Grade Summer Math Packet

Select the one best answer for each question. DO NOT use a calculator in completing this packet.

- 1. Which of the following sets of numbers are **all** of the factors of 24?
  - A. 1, 3, 8, 24
    B. 2, 4, 6, 8, 12, 24
    C. 2, 3, 4, 6, 8, 12
    D. 1, 2, 3, 4, 6, 8, 12, 24
- 2. Which of the following numbers is a multiple of 8?
  - A. 18B. 28C. 44D. 56
- 3. The following are all multiples of a one-digit number: 12, 24, 30, 42.
  - A. 5
  - B. 6
  - C. 7 D. 8
- 4. Al sees this sign at a copy center. What is the least number of copies Al can make without losing any money?

hines only take quarters.
hines do NOT make change.

- A. 5
- B. 30
- C. 75
- D. 150
- 5. Which of the following is NOT true about prime numbers?
  - A. They have exactly two factors
  - B. One is a factor of every prime number
  - C. No prime numbers end in zero
  - D. All prime numbers are odd numbers

6. I am a factor of 36 and a multiple of 3. What number am I?

- A. 2B. 4C. 12
- D. 15

7. Since  $4 \ge 10 = 40$ , and  $40 \ge 5 = 200$ , then which of the following is true?

8. Write the products: Practice any you do not know quickly.

4	8	11	2	2	7	10	12	6	5	9	5	0
<u>x2</u>	<u>x4</u>	<u>x2</u>	<u>x5</u>	<u>x3</u>	<u>x5</u>	<u>x3</u>	<u>x4</u>	<u>x3</u>	<u>x4</u>	<u>x4</u>	<u>x3</u>	<u>x2</u>
3	9	2	5	7	10	6	5	11	1	4	8	11
<u>x3</u>	<u>x5</u>	<u>x7</u>	<u>x5</u>	<u>x4</u>	<u>x4</u>	<u>x4</u>	<u>x2</u>	<u>x5</u>	<u>x3</u>	<u>x5</u>	<u>x2</u>	<u>x4</u>
6	8	6	3	9	10	12	3	7	4	9	4	12
<u>x5</u>	<u>x4</u>	<u>x2</u>	<u>x4</u>	<u>x3</u>	<u>x2</u>	<u>x3</u>	<u>x5</u>	<u>x3</u>	<u>x4</u>	<u>x2</u>	<u>x3</u>	<u>x2</u>
9	7	5	2	6	7	3	4	5	8	3	11	5
<u>x8</u>	<u>x6</u>	<u>x10</u>	<u>x7</u>	<u>x9</u>	<u>x7</u>	<u>x8</u>	<u>x6</u>	<u>x9</u>	<u>x7</u>	<u>x9</u>	<u>x7</u>	<u>x7</u>
9	2	6	4	5	6	4	8	10	3	7	4	7
<u>x6</u>	<u>x9</u>	<u>x7</u>	<u>x11</u>	<u>x6</u>	<u>x8</u>	<u>x9</u>	<u>x8</u>	<u>x8</u>	<u>x6</u>	<u>x8</u>	<u>x7</u>	<u>x9</u>
2	3	9	8	2	3	9	7	0	2	5	4	6
<u>x6</u>	<u>x12</u>	<u>x9</u>	<u>x6</u>	<u>x8</u>	<u>x6</u>	<u>x7</u>	<u>x8</u>	<u>x9</u>	<u>x12</u>	<u>x8</u>	<u>x9</u>	<u>x6</u>

9. Which expression is equal to 3 x 49?

A. 3 x (4 + 9) B. 3 + (40 x 9) C. 3 x (40 + 9) D. (3 x 4) + (3 x 9)

10. Which has the same value as 57 x 4?

A.  $(50 \times 4) + (7 \times 4)$  B. (50 + 5) + 2C.  $(50 \times 5) + 2$ D.  $(50 \times 4) + 7$ 

#### 11. Solve the following:

2,749	156	837	368
x 68	<u>x 78</u>	<u>x 46</u>	<u>x 20</u>

- 12. What is 2520 divide by 10? Show your work.
  - A. 25,200
  - B. 2,520
  - C. 253
  - D. 252
- 13. There are 168 lunches to be shared equally among 3 fourth-grade classes. How many lunches will go to each class?
  - A. 56B. 165C. 171
  - D. 504
- 14. If  $600 \div A = 300$ , what is A?
  - A. 200B. 30C. 20D. 2
- 15. Fill in the blank with the number that makes this math sentence correct:
  - 12 x \_\_\_\_\_= 60 A. 7 B. 4 C. 6 D. 5
- 16. What value of p makes the equation below true?  $270 \div p = 27$ 
  - A. 7B. 8C. 9D. 10
- 17. Which math problem can be checked using  $3 \ge 6 = 18$ ?
  - A.  $18 \times 3 =$ B. 18 + 3 =C.  $18 \div 3 =$ D. 18 - 3 =

- 18. The students in your class collected pop cans to raise money for a class trip. The goal for each student was to collect 150 cans each. There are 27 students in your class. How many cans would that be altogether?
  - A. 177 cans B. 405 cans C. 1350 cans D. 4050 cans
- 19. Which answer means the same as \$12.49?
  - A. One and two forty nines
  - B. Twelve and forty nine
  - C. Twelve and forty nine tens
  - D. Twelve and forty nine hundredths
- 20. Mr. Clark was given some change at the grocery store. He was given 5 one dollar bills, 6 quarters, 2 dimes and a penny. How much change did he get?
  - A. \$5.62B. \$6.71
  - C. \$56.21
  - D. \$6.21
- 21. Which is equal to 0.45?
  - A.  $\frac{4}{5}$ B.  $\frac{45}{100}$ C.  $\frac{100}{45}$ D.  $\frac{5}{100}$
- 22. Which number is the same as one fourth? (think of <sup>1</sup>/<sub>4</sub> of 100 when converting to decimals; think of money)
  - A. 0.4B. 0.04C. 0.25
  - D. 0.75
- 23. Which point on the number line below best represents 1.75?



- A. Point A
- B. Point B
- C. Point C
- D. Point D

24. Match the following: Draw a line to make a match.

.08
.3
.4
.64

- 25. Divide 3,252 ÷ 7
  - A. 463 R11
  - B. 464
  - C. 464 R4

26. Write the following in fraction and decimal form:

Eight tenths = \_\_\_\_\_=

Twenty-seven hundredths = \_\_\_\_\_=

Five hundredths = \_\_\_\_\_=

- Five tenths = \_\_\_\_\_=
- 27. Which number is the same as .5?
  - A. One half
  - B. 5/1
  - C. Five hundredths
  - D. 5/1000

28. Choose the circled group that represents 1/3.



29. There are 4 red cars, 5 blue cars, and 2 green cars in the parking lot. What is the fraction of Blue cars in the parking lot?

A. 
$$\frac{5}{4}$$
  
B.  $\frac{5}{9}$   
C.  $\frac{5}{11}$   
D.  $\frac{11}{5}$ 

30. Which number line shows these two fractions?



31. Which of the following best represents the location of the X on the number line below?



- 33. Which number is an improper fraction?
  - A. 11/12
  - B. 5/8
  - C. 8/5
  - D. 6/7

34. Convert this improper fraction into a mixed number. 11/2

- A. 11 <sup>1</sup>/<sub>2</sub> B. 2/11
- C. 4 1/2
- D. 5 ½

35. Which of the following is listed from smallest to largest? Draw pictures

	11 15 27
A.	4' 6' 12
	15 8 27
B.	6'3'-12
	15 27 8
C.	6' 12' 3
	8,27,11
D.	3' 12' 4

36. Choose the equation that is NOT true.

A. 
$$\frac{1}{2} + \frac{3}{8} = \frac{7}{8}$$
  
B.  $\frac{1}{6} + \frac{5}{12} = \frac{7}{12}$   
C.  $\frac{3}{10} - \frac{23}{100} = \frac{7}{100}$   
D.  $\frac{8}{10} - \frac{3}{5} = \frac{2}{5}$ 

37. The distance from home to school is 7/8 of a mile for Amy and 4/8 of a mile from Tom. How much farther does Amy walk than Tom?

A. 11/8
B. 11/16
C. 3/16
D. 3/8

38. How much is 1.14 ÷ 2? Do not use a calculator. (Line up and move decimal straight up into answer) A. .7

- B. .52
- C. .57
- D. 1.7

- 39. Which of the following is closest to the sum of 811 and 356? No calculator  $\odot$ .
  - A. 1400
  - B. 1300
  - C. 1200
  - D. 1100
  - 40. Find the difference: Remember "bottom bigger better borrow" and you can only borrow from next door. You can always check your answers by adding your answer and the second number and this should equal your top number.

701	68	100	63	35	114	66
- 35	<u>- 27</u>	<u>- 37</u>	<u>- 47</u>	<u>-15</u>	<u>- 37</u>	<u>- 24</u>

41. Find the product:

36	47	59	28	19	56	78
<u>x 47</u>	<u>x 68</u>	<u>x 39</u>	<u>x 18</u>	<u>x 47</u>	<u>x 36</u>	<u>x 37</u>

42. This pencil is about how many centimeters long?



43. What temperature is shown on this thermometer, to the nearest degree?



- 44. Bobbie was writing an article for the school newspaper about the amount of homework the 4<sup>th</sup> grade teachers were assigning. He was surprised to find out that the average student only spent 20 minutes per night doing homework. To make it sound longer, he decided to convert the time from minutes to seconds in the article. How many seconds did the average student spend on homework?
  - A. 80 seconds
  - B. 120 seconds
  - C. 800 seconds
  - D. 1,200 seconds
- 45. Sheryl planned to buy a wall paper border for her bedroom. She measured the lengths of the walls and found the perimeter of her room. Use the picture below to determine the perimeter.



4 feet

- A. 12 feet
- B. 18 feet
- C. 24 feet
- D. 36 feet

47. What is the area of the figure in question #84?

- A. 12 square feet
- B. 28 square feet
- C. 24 square feet
- D. 36 square feet
- 48. If the perimeter of a square is 48 cm, what is the length of each side? (Draw a picture and think of the key word of what type of shape it is.)

2 ft.

2 feet

- A. 8 cm
- B. 10 cm
- C. 12 cm
- D. 24 cm

49. Sarah opens her book. What is the angle formed by the open book?



- A. less than a right angle (acute)
- B. equal to a right angle
- C. greater than a right angle (obtuse)
- D. cannot tell without a picture of a right angle
- 50. What is the size of this angle?



- A. acute
- B. equal to a right angle
- C. obtuse
- D. cannot tell without a picture of a right angle
- 51. Which angle is a right angle?



- 52. These lines are
  - A. parallel
  - B. perpendicular
  - C. not intersecting

53. These lines are

- A. parallel
- B. perpendicular
- C. intersecting

54. In the drawing below, which line is parallel to line A?



- A. none of them
- B. B
- C. C
- D. D

55. Which type of triangle has only 2 equal sides, like the drawing below?



- A. equilateral triangle
- B. isosceles triangle
- C. pyramid
- D. right triangle

56. Which geometric figure is shown here?



- A. equilateral triangle
- B. isosceles triangle
- C. pyramid
- D. right triangle

57. Answer the following questions on the figure below.



How many vertices does the box above have?

- A. 3 vertices
- B. 8 vertices
- C. 10 vertices
- D. 18 vertices

How many faces does the box above have?

- A. 6 faces
- B. 8 faces
- C. 10 faces
- D. 18 faces

How many edges does the box above have?

- A. 3 edges
- B. 9 edges
- C. 12 edges
- D. 18 edges

- 58. Sharon had a bag of 12 marbles. She gave 8 of the marbles to Don. Which fractional part of the marbles did Sharon have left?
  - A. 8/12
    B. 4/8
    C. 4/12
    D. <sup>1</sup>⁄<sub>4</sub>
- 59. Laura wrote 200 words on the first page of her journal. After the second page, she had 400 words. If the pattern continues, how many pages will it take her to write 1000 words? Continue to fill in the table to find the answer.

	Page	Words	Total
	Number		words
	1	200	200
	2	200	400
	3		
	4		
	5		
	6		
	7		
3			
4			
5			
6			

60. Answer the following questions using this set of data.  $\{2, 2, 3, 5, 10, 10, 10\}$ 

What is the median?

A. 5

A. B. C. D.

- B. 6
- C. 7 D. 8
- D. 0

What is the mode?

- A. 2
- B. 5
- C. 8 D. 10

What is the range?

- A. 5
- B. 6
- C. 8
- D. 10
- 61. The chart below shows the number of minutes that Katie spent on her computer each day for one week.

Katie's	Computer	Time	
---------	----------	------	--

Day	Number of Minutes
Sunday	59
Monday	65

Tuesday	42
Wednesday	84
Thursday	64
Friday	37
Saturday	46

What number represents the median of the data in the chart?

A. 47

B. 53

C. 59

D. 37

What is the range of the data in the chart?

- A. 37
- B. 47
- C. 88
- D. 92

62. Find the sum or difference: Watch the signs.

135	546	71	50	304	63	426
+479	+137	<u>- 18</u>	<u>-26</u>	+235	<u>-42</u>	<u>-135</u>
17	<b>E</b> 4	105	2.2	0.0	0.1	4.0
1/	54	135	3.2	8.8	8.1	4.8
+18	<u>-39</u>	<u>- 53</u>	<u>+2.8</u>	<u>+1.3</u>	<u>-5.7</u>	<u>-2.6</u>

63. Which shows the fractions in order from least to greatest?

A. <sup>1</sup>/<sub>4</sub>, 1/3, <sup>1</sup>/<sub>2</sub> B. <sup>1</sup>/<sub>2</sub>, 1/3, <sup>1</sup>/<sub>4</sub> C. 1/3, <sup>1</sup>/<sub>4</sub>, <sup>1</sup>/<sub>2</sub>

64. During July, the third and fourth graders kept track of the number of minutes they read each week. Use this graph to figure out how many minutes total the third graders read in July.



- A. 250
- B. 400
- C. 1000
- D. 2700

65. How many more total seeds did Liz spit across the line than Donald, in all 4 rounds?



A. 1 B. 4

C. 5

66. Do the following divisions. Then check your answer. Show your work. No calculators!

Check your work:

B. 380 ÷ 10 = \_\_\_\_\_

C. 4235 ÷ 10 = \_\_\_\_\_ x\_\_\_\_\_ D. 4) 769

67. Locate and label these two fractions on the number line. Then tell which is larger.



68. On the strips below, shade and label the following fractions.



Largest fraction \_\_\_\_\_\_ Mid size fraction \_\_\_\_\_\_ Smallest fraction \_\_\_\_\_ 69. Write this fraction as a mixed number. Then create a picture that represents it as a mixed number:

 $\frac{13}{3}$ 

70. Solve the following problems:

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

### 71. Find the products.

Any multiplication problem you do not know quickly please practice on flash cards.

6	4	7	5	12	3	6	3	0	7	5	6	3 8
<u>x2</u>	<u>x4</u>	<u>x2</u>	<u>x4</u>	<u>x0</u>	<u>x5</u>	<u>x3</u>	<u>x8</u>	<u>x8</u>	<u>x3</u>	<u>x5</u>	<u>x4</u>	<u>x9 x3</u>
6	2	3	8	7	12	8	3	11	7	9	4	4 9
<u>x5</u>	<u>x12</u>	<u>x6</u>	<u>x2</u>	<u>x5</u>	<u>x1</u>	<u>x4</u>	<u>x7</u>	<u>x4</u>	<u>x6</u>	<u>x2</u>	<u>x8</u>	<u>x6 x3</u>
4	5	0	5	9	5	2	9	5	11	5	9	7 7
<u>x7</u>	<u>x0</u>	<u>x3</u>	<u>x8</u>	<u>x4</u>	<u>x7</u>	<u>x1</u>	<u>x5</u>	<u>x6</u>	<u>x5</u>	<u>x9</u>	<u>x8</u>	<u>x7 x9</u>
8	6	8	1	9	9	8	1	9	2	1	3	12 1
<u>x8</u>	<u>x6</u>	<u>x7</u>	<u>x2</u>	<u>x6</u>	<u>x9</u>	<u>x6</u>	<u>x9</u>	<u>x1</u>	<u>x5</u>	<u>x1</u>	<u>x4</u>	<u>x3 x3</u>

8 <u>x0</u>	8 <u>x1</u>	12 <u>x4</u>	8 <u>x9</u>	12 <u>x0</u>	5 <u>x1</u>	3 <u>x2</u>	4 <u>x0</u>	2 <u>x2</u>	7 <u>x1</u>	6 <u>x8</u>	2 <u>x6</u>	6 <u>x7</u>	12 <u>x5</u>	
8 <u>x5</u>	4 <u>x1</u>	2 <u>x8</u>	9 <u>x7</u>	12 <u>x8</u>	11 <u>x6</u>	2 <u>x9</u>	7 <u>x4</u>	0 <u>x2</u>	6 <u>x9</u>	1 <u>x0</u>	5 <u>x2</u>	3 <u>x3</u>	2 <u>x4</u>	
4 <u>X9</u>	12 <u>x6</u>	4 <u>x2</u>	4 <u>x3</u>	1 <u>x4</u>	2 <u>x3</u>	11 <u>x7</u>	6 <u>x1</u>	7 <u>x8</u>	5 <u>x3</u>	2 <u>x7</u>	1 <u>x8</u>	4 <u>x5</u>	11 <u>x4</u>	
72. Fi	nd the q	uotient	s.											
2)2	3)9	8)32	7)49	5)10	4)0	1)1	4)8	2)12	9)54	1)3	1)2	2)4		
8)8	7)63	8)40	5)0	4)4	4)12	9)45	9)63	6)6	3)12	1)7	3)0	1)9		
8)16	3)21	9)18	4)24	2)6	1)8	5)35	7)35	3)27	6)36	3)24	2)0	4)32		
9)9	4)36	6)42	5)40	8)64	7)14	6)30	8)56	1)5	4)28	7)56	8)24	6)24		
81 ÷ 9=			48 ÷ 6 =				18 ÷ 6 =			42 ÷ 7 =				
10 ÷ 2 =			54 ÷ 6 =				36 ÷ 9 =			45 ÷ 5 =				
72 ÷ 8	2 ÷ 8 =			8 ÷ 2 =				72 ÷ 9 =			6 ÷ 1 =			
25 ÷ 5	÷ 5 = 5 ÷ 5 =					$18 \div 2 =$			30 ÷ 5					

18

**CONGRATULATIONS!!!** You have completed (part one) the summer math packet. With this and your lesson you are now ready for 5<sup>th</sup> grade success! Please turn this packet and your mini lesson into me, the first day of classes in September.