## Summer Math Reinforcement Packet Students Entering into 5th Grade

Our fourth graders had a busy year learning new math skills. **Mastery of all these skills is extremely important in order to develop a solid math foundation.** The fifth grade math program will **add onto these fourth grade skills,** so any time spent learning or reinforcing these concepts will be very beneficial for your child. Each year builds upon the previous year's skills in math. Any areas your child has difficulty, you may want to give them additional practice. **Student mastery of the basic math skills is as important to success in future mathematical procedures and reasoning as learning the alphabet is to reading and writing.** 

Have your child complete one page (one side), three times a week of the math packet. Please return this completed packet in September to your fifth grade teacher. **The grade receiving the largest percentage of summer packets returned will win an extra recess at school.** Your child will receive a prize and certificate for completing the packet. The biggest prize of all is being ready for fifth grade!

After your child has completed the math problems and you feel your child is still struggling on a certain concept and needs further practice, you can visit some of the web sites listed on the next page. You can also make up problems of your own for additional practice.

Enjoy your summer!!

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

### FOURTH GRADE

### **GRADE LEVEL EXPECTATIONS IN MATHMATICS**

When entering fifth grade this is what is expected that your child should already know.

- 1. Read and write numbers to 1,000,000.
- 2. Know place value to 1,000,000. Ex. 25,068 is 2 ten thousand, 5 thousand, 0 hundreds, 6 tens and 8 ones.
- 3. List the first twelve multiples of a given one-digit whole number.
- 4. Know some numbers are called prime numbers. Some prime numbers are 2, 3, 5, 7 and 11; have exactly two factors one and itself.
- 5. Add, subtract and multiply whole numbers **fluently**.
- 6. Divide numbers up to four-digits by one-digit numbers and by 10.
- Use the relationship between multiplication and division to check results and to find the value of the unknowns in equations such as x ÷ 10 = 25, 10 x 25 = 250 so x = 250; 125 ÷ z = 25, 125 ÷ 25 = 5 so z = 5.
- 8. Locate the decimals in tenths and hundredths on a number line.
- 9. Read, write, interpret, and compare decimals up to two decimal places (hundredths).
- 10. Convert decimals in tenths and hundredths to fraction and decimal forms.
- 11. Write improper fractions as mixed numbers and mixed numbers as improper fractions.
- 12. Compare and order up to three fractions with denominators 2, 4, and 8; and 3, 6, and 12.
- 13. Add and subtract fractions.
- 14. Find the value of an unknown in equations such as 1/8 + x = 5/8 or  $\frac{3}{4} y = \frac{1}{2}$ .
- 15. Add and subtract decimals up to 2 decimal places.
- 16. Multiply and divide decimals up to 2 decimal places by a one-digit whole number.
- 17. Measure area and perimeter for compound shapes (complex figures).
- 18. Calculate conversions from one unit to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds.
- 19. Identify and draw perpendicular, parallel and intersecting lines.
- 20. Find the side of a square or rectangle given its perimeter or area and possibly one side.
- 21. Identify basic geometric shapes including isosceles, equilateral and right triangles.
- 22. Recognize plane figures that have line symmetry. (Where you can divide a shape in half and both halves are exactly the same.

## **Excellent websites for fun learning and reinforcement of math skills:**

www.wildmath.com	Select "Play the game". Select addition, subtraction or multiplication and grade. You can race to beat your time.
www.harcourtschool.co	om Click the red box, select math, select HSPMath, select Michigan, click on the "4" ball or "5" ball for a challenge. Select a game.
www.aplusmath.com	Go under "Flashcards" or "Game Room" on the left side of the screen. They can practice adding, subtracting and multiplying. Very important to know the addition, subtraction and multiplication facts from memorization or within a couple seconds.
www.mathisfun.com	Select numbers then Math Trainer for adding, subtracting and multiplication. Or at the home screen select games and pick a game to play.
www.eduplace.com	<ul> <li>Select your state – "Michigan" press submit. Select the student tab then click on the "mathematics" rectangle. Click in the center book "Houghton Mifflin Math 2007", Click on "Grade 4". Select any games. Extra Help and Extra Practice is good, also eGames.</li> </ul>
www.illuminations.ncti	m.org Select activities then select grade level. Click on Search.
www.aaamath.com	At the top pick "Fourth" or "Fifth" for a challenge. Choose any of the activities like multiplication then select "play" option toward the top of the screen. 20 Questions and Countdown games are good ones.

www.funbrain.com Lots of fun games to choose from.

Other games and activities you can play:

• Take a deck of cards and remove the face cards (kings, queens, jacks). Aces are one. Divide the cards evenly among 2 players. Each player flips over a card. The first one to add the 2 numbers correctly the fastest wins the cards. After going through the pile of cards, the player with the most cards wins. You can do a multiplication version also.

### **TERMS**

Vertex: This is all the corners of a figure.

**Right angle:** An angle at 90° like a corner of a piece of paper. **Acute angle:** An angle smaller than a right angle. **Obtuse angle:** An angle larger than a right angle.

**Perimeter**: You add up <u>all</u> the sides. (You are adding all lengths of the outer edges together.) **Area**: \*<u>Area of a square or rectangle</u> = length(l) x width(w) answer is written in "square inches"

(or whatever the measurement is).

\*<u>Area of a parallelogram</u> is length x height. Answer written in "square inches" (or whatever measurement)

| height Length

\*<u>Area of a triangle</u> is <sup>1</sup>/<sub>2</sub> base x height. Answer written in "square inched" (or whatever measurement).

 Perpendicular lines:
 2 lines form a right angle.

 Parallel lines:
 2 lines that will never cross each other.

 Intersecting lines:
 2 lines that cross each other but do not form a right angle.

**Equilateral triangle** is where all 3 sides of the triangle measure the same length. **Isosceles triangle** is where only 2 of the sides of a triangle are equal in length.

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1 'ont	OPCION
COIIN	version:

60 seconds = 1 minute	24  hours = 1  day	52 weeks = 1 year
60 minutes = 1 hour	7 days = 1 week	12 months = 1 year
12 inches = 1 foot	10 millimeter = 1 centimet	er (approx. $3\frac{1}{2}$ centimeters = 1 inch)
3 feet = 1 yard	100 centimeter = 1 meter (app	rox. 1 meter = 1 yard)

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

First Name:	Last Name:	
5 <sup>th</sup> Grade Teacher:		
I have checked the work completed:		
	Parent Signature	

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 which one-digit number: 12, 24, 30, 42?

- A. 5B. 6
- C. 7
- D. 8
- 4. Which number is a multiple of 3?

A. 83B. 84C. 85D. 86

5. Which of the following sets of numbers are all multiples of 7?

A. 35, 47, 52
B. 35, 36, 37
C. 35, 42, 49
D. 37, 47, 57

6. Al sees this sign at a copy center. What is the least number of copies Al can make without losing any money?

1.	Copies cost 10¢ each.
2.	Copy machines only take quarters.
3.	Copy machines do NOT make change.
	If you make 1 copy, you will NOT get 15¢ back.

- A. 5
- B. 30
- C. 75
- D. 150
- 7. 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
- 8. Which set does NOT contain any multiples of 4?
  - A. {24, 36, 42, 54}
    B. {12, 15, 20, 24}
    C. {8, 16, 24, 34}
    D. {6, 10, 14, 18}
- 9. I am a factor of 36 and a multiple of 3. What number am I?
  - A. 2B. 4C. 12D. 15
- 10. Since  $4 \ge 10 = 40$ , and  $40 \ge 5 = 200$ , then which of the following is true?
  - A. 14 x 45 = 200
    B. 4 x 10 x 5 = 200
    C. 4 x 10 x 40 = 200
    D. 40 x 10 x 5 = 200
- 11. My number is a multiple of 5. It is less than 100 and has a factor of 6. What is my number?
  - A. 25 C. 60 B. 36 D. 66

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

4 <u>x2</u>	8 <u>x4</u>	11 <u>x2</u>	2 <u>x5</u>	2 <u>x3</u>	7 <u>x5</u>	10 <u>x3</u>			5 <u>x4</u>			0 <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>

13. Since 5 x 20 = 100, which number will complete the number sentence below to make it true? 5 x\_\_\_\_x 5 = 100

- A. 4 B. 5 C. 20
- D. 25
- 14. Solve 136 67.
  - A. 61 B. 69 C. 71
  - D. 79

15. Solve 206 – 48.

- A. 158B. 242C. 162
- D. 262

16. Which expression is equal to 3 x 49?

- A.  $3 \times (4 + 9)$ B.  $3 + (40 \times 9)$ C.  $3 \times (40 + 9)$ D.  $(3 \times 4) + (3 \times 9)$
- 17. Which has the same value as  $57 \times 4?$ 
  - A.  $(50 \times 4) + (7 \times 4)$ B. (50 + 5) + 2C.  $(50 \times 5) + 2$ D.  $(50 \times 4) + 7$
- 18. Which expression is equal to 83 x 5?
  - A. 80 x (3 + 5)
    B. (80 x 5) + (3 x 5)
    C. (5 x 80) + 3
    D. (80 x 5) + ((80 x 3))
- 19. Solve the following using the partial products method:

20. What is 1,486 divided by 3? Show your work.

- A. 4,812 r0
  B. 495 r1
  C. 280 r10
  D. 496 r0
- 21. What is 2,520 divide by 10? Show your work.
  - A. 25,200
    B. 2,520
    C. 253
    D. 252

22. What is the value of this expression?  $420 \div 4$ 

- A. 15
- **B**. 100
- C. 105
- D. 150
- 23. There are 168 lunches to be shared equally among 3 fourth-grade classes. How many lunches will go to each class?
  - A. 56
  - B. 165
  - C. 171
  - D. 504

24. What is the value of this expression?  $3,750 \div 10$ 

- A. 370B. 375C. 3740D. 37500
- 25. Which division problem is correct? Show your work.
  - A.  $4,836 \div 6 = 86$ B.  $4,836 \div 6 = 806$ C.  $3,215 \div 5 = 641$ D.  $3,215 \div 5 = 603$

 $26.If 600 \div A = 300$ , what is A?

- A. 200B. 30C. 20D. 2
- 27. Fill in the blank with the number that makes this math sentence correct:

- 28. What value of A makes the number sentence true?  $100 \div A = 20$ 
  - a. 4
  - b. 5
  - c. 80 D. 120
- 29. What value of n makes the equation below true?
  - $n \div 7 = 21$
  - a. 3
  - b. 28
  - C. 141 D. 147
  - D. 147
- 30. Which value of g makes the number sentence true?
  - $g \div 8 = 32$
  - a. 4 b. 24
  - c. 40
  - D. 256
- 31. What value of p makes the equation below true?  $270 \div p = 27$ 
  - a. 7
  - b. 8
  - c. 9
  - d. 10
- 32. Which math problem can be checked using  $3 \ge 6 = 18$ ?
  - A. 18 x 3 = \_\_\_\_\_
  - B. 18 + 3 = \_\_\_\_\_
  - C.  $18 \div 3 =$  \_\_\_\_\_
  - D. 18 3 = \_\_\_\_\_
- 33. The students in your class collected soda 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 all together?
  - a. 177 cans
  - b. 405 cans
  - c. 1,350 cans
  - d. 4,050 cans

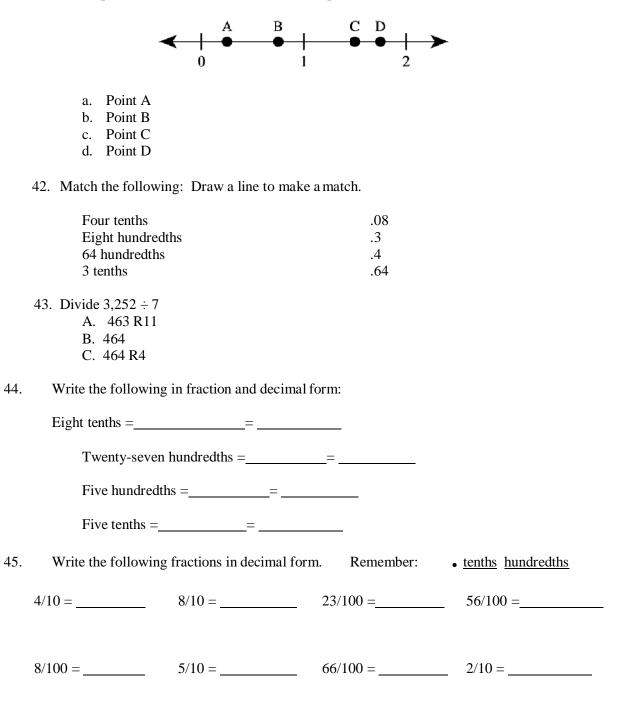
- 34. Suppose 33 photos are placed in a photo album. How many pages are needed if 3 photos fit on a page? Show your work.
  - a. 9 pages
  - b. 10 pages
  - c. 11 pages
  - d. 12 pages
- 35. Which answer means the same as \$12.49?
  - a. One and two forty nines
  - b. Twelve and forty nine
  - c. Twelve and forty nine tens
  - d. Twelve and forty nine hundredths
- 36. 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. \$5.62
  - B. \$6.71
  - C. \$56.21
  - D. \$6.21
- 37. What decimal part of one dollar is the sum of these coins?



- A. 2.00
- B. 0.20
- C. 0.02
- D. 0.22
- 38. What is another way to write 0.7 inches?
  - a. 7/10000 inches
  - b. 7/1000 inches
  - c. 7/100 inches
  - d. 7/10 inches
- 39. Which is equal to 0.45?

A. 
$$\frac{4}{5}$$
  
B.  $\frac{45}{100}$   
C.  $\frac{100}{45}$   
D.  $\frac{5}{100}$ 

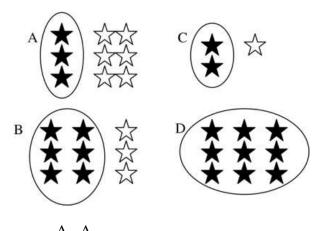
- 40. Which number is the same as one fourth? (think of <sup>1</sup>/<sub>4</sub> of 100 when converting to decimals; think of money)
  - A. 0.4B. 0.04
  - C. 0.25
  - D. 0.75
- 41. Which point on the number line below *best* represents 1.75?



13

Which number is the same as .5? A. One half B. 5/1 C. Five hundredths D. 5/1000 How is eighteen hundredths written in standard form? A. 0.018 B. 0.18 C. 18.00 D. 1800 Solve each of these without using a calculator: 8 x 8 =\_\_\_\_ 6 x6 =\_\_\_\_ 4 x 6 =\_\_\_\_\_ 2 x 9 = \_\_\_\_\_ 5 x 5 = 9 x 6 =\_\_\_\_ 8 x 5 =\_\_\_\_ 2 x 2 = 3 x 4 =\_\_\_\_\_ 32 ÷ 4 = \_\_\_\_ 7 x 7 = 56 ÷ 7 = 72 ÷ 9 = \_\_\_\_\_ 18 ÷ 2 =\_\_\_\_ 3 x 8 =\_\_\_\_  $45 \div 9 =$ 4 x 4 = 8 x 7 = 3 x 3 =\_\_\_\_  $24 \div 3 =$ 3 x 8 =

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



A. A B. B C. C

46.

47.

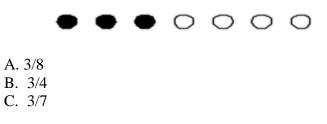
48.

# D. D

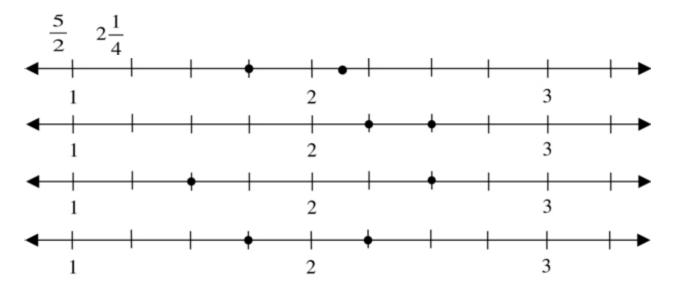
50. There are 4 red cars, 5 blue cars, and 2 green cars in the parking lot. What is the fraction of blue cars in the parking lot?

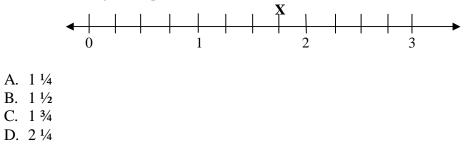
A.	$\frac{5}{4}$
B.	$\frac{5}{9}$
C.	$\frac{5}{11}$
D.	$\frac{11}{5}$

51. What is the fraction for the shaded part of this set?



52. Which number line shows these two fractions?





54. How many twelfths equal 5/6?

- A. 10/12
- B. 11/12
- C. 6/12
- D. 5/12
- 55. How many eighths equal  $\frac{1}{4}$ ?
  - A. 1/8
  - B. 2/8
  - C. 4/8
  - D. 7/8
- 56. Which number is a fraction greater than one?
  - A. 11/12B. 5/8C. 8/5
  - D. 6/7

57. 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

58. Solve the following:

1 x 9 =	3 x 6 =	9 x 7 =	6 x 2 =
8 x 6 =	2 x 2 =	3 x 8 =	9 x 9 =
24 ÷ 3 =	7 x 7 =	56 ÷ 7 =	4 x 0 =
48 ÷ 6 =	18 ÷ 6 =	7 x 3 =	7 x 7 =

- 59. Which of the following is a prime number?
  - A. 21B. 33C. 49D. 53
- 60. Choose the equation that is NOT true.

$$A \cdot \frac{1}{2} + \frac{3}{8} = \frac{7}{8}$$

$$B \cdot \frac{1}{6} + \frac{5}{12} = \frac{7}{12}$$

$$C \cdot \frac{3}{10} - \frac{23}{100} = \frac{7}{100}$$

$$B \cdot \frac{3}{10} - \frac{3}{5} = \frac{2}{5}$$

- 61. 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
- 62. Sonya needs <sup>1</sup>/<sub>2</sub> teaspoon of salt for her recipe to make rolls. She needs <sup>1</sup>/<sub>4</sub> teaspoon of salt for her recipe to make biscuits. How much salt will she need to make both recipes?
  - A. 2/6 tsp.
  - B. 3/4 tsp.
  - C. 1/8 tsp.
  - D. 1/6 tsp.

63. Solve for the unknown in this equation:

2/4 + n = 3/4 n = \_\_\_\_\_

- A. 5/4
- **B.** 1/2
- C. 1/4
- D. 5/8

64. Which of the following is closest to the sum of 811 and 356? No calculator $\bigcirc$ .

- A. 1,400
- B. 1,300
- C. 1,200
- D. 1,100

65. Which of the following is closest to the product of 81 and 82? Do not use a calculator.

- A. 6,400
- B. 7,200
- C. 720
- D. 64,000

66. One hundred fourth graders at Woodlin Elementary are attending a Olympic day. The teachers need to know how many hot dogs to buy. All the following are reasonable approximations EXCEPT.

- A. 100 hot dogs
- B. 150 hot dogs
- C. 200 hot dogs
- D. 50 hot dogs

67. A cat sleeps an average of 17 hours each day. About how many hours does a cat sleep in a month?

- A. 300 hours
- B. 600 hours
- C. 170 hours
- D. 6000 hours

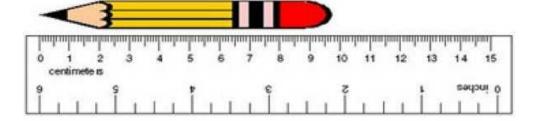
68. Find the difference:

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

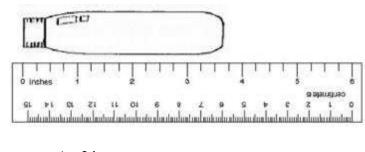
69. Find the product using the partial products method:

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>

70. This pencil is about how many centimeters long?

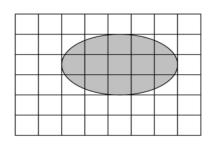


- A. 9 cm
- B. 10 cm
- C. 11 cm
- D. 12 cm



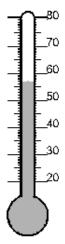
71. What is the length of this light bulb to the nearest inch?

- A. 2 in.
- B. 3 in.
- C. 4 in.
- D. 5 in.
- 72. What is the best estimate of the area, in square centimeters, of the SHADED FIGURE on the grid below? One square equals one square centimeter.



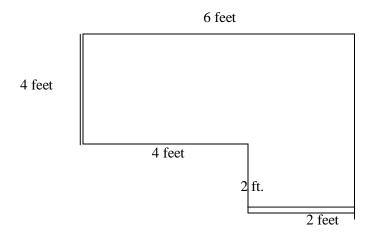
- A. 5 square centimeters
- B. 11 square centimeters
- C. 13 square centimeters
- D. 15 square centimeters
- 73. Which is most likely the length of a telephone book?
  - A. 30 kilometers
  - B. 30 centimeters
  - C. 30 millimeters
  - D. 30 meters
  - 74. Brent is making a sail for a toy boat. The sail needs to be 3.55 cm wide. Which measure would be MOST useful in making the sail?
    - A. To the nearest millimeter
    - B. To the nearest decimeter
    - C. To the nearest meter
    - D. To the nearest kilometer

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



- A. 50 degrees C
- B. 55 degrees C
- C. 57 degrees C
- D. 60 degrees C
- 76. 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
- 77. Sheryl may want to buy new carpeting for her room. She needs the square footage of the room to take to the store to price how much carpeting would be. What is the area of her room in the picture above?
  - A. 22 square feet
  - B. 120 square feet
  - C. 100 square feet
  - D. 144 square feet

#### Find the perimeter of the figure below? 78.



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

What is the area of the figure above?

- A.
- 12 square feet 28 square feet B.
- C. 24 square feet
- 36 square feet D.

79. Sharon had a rectangular garden with a perimeter of 36 feet. The fence surrounding it was falling down on one of the short sides (width). If the length of the garden was 10 feet, how many feet of fence did she need to replace the broken portion (width) of the fence?



Perimeter = 36 ft.

Length = 10 ft.

- A. 6 feet
- B. 8 feet
- C. 10 feet
- D. 26 feet
- 80. What is the area of the rectangle garden on the previous page (#86)?
  - A. 6 square feet
  - B. 18 square feet
  - C. 80 square feet
  - D. 100 square feet
  - 81. 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.)
    - A. 8 cm
    - B. 10 cm
    - C. 12 cm
    - D. 24 cm
  - 82. What is the width of a rectangle that has a length of 6 feet and an area of 60 square feet? Draw a picture.
    - A. 10 feet
    - B. 12 feet
    - C. 24 feet
    - D. 66 feet

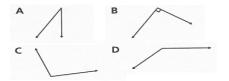
- 83. What is the width of a rectangle with a length of 5 inches and a perimeter of 16 inches? Draw a picture.
  - A. 2 inches
  - B. 3 inches
  - C. 8 inches
  - D. 21 inches
- 84. Sarah opens her book. What is the angle formed by the open book?



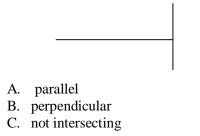
- A. less than a right angle (acute)
- B. equal to a right angle
- C. greater than a right angle (obtuse)
- D. cannot tell without a picture of a right angle
- 85. What is the size of this angle?



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

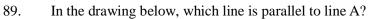


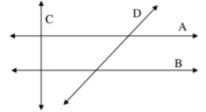
87. These lines are



88. These lines are

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





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

In the drawing above, which line is perpendicular to A?

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

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



- A. equilateral triangle
- B. isosceles triangle
- C. pyramid
- D. right triangle
- 91. Which geometric figure is shown here?



- A. equilateral triangle
- B. isosceles triangle
- C. pyramid
- D. right triangle
- 92. 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

93. 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>

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

95. What is the length of a rectangle with a width of 4 centimeters and a perimeter of 28 centimeters?

- A. 7 centimeters
- B. 10 centimeters
- C. 20 centimeters
- D. 24 centimeters
- 96. Divide  $875 \div 5$ . Show your work!

А. В. С.

•

A. B. C. D.

97. Multiply 46 by 78. Show your work by using the partial products method!

98. How do you write 45 hundredths as a fraction and decimal?

\_\_\_\_\_fraction

decimal

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

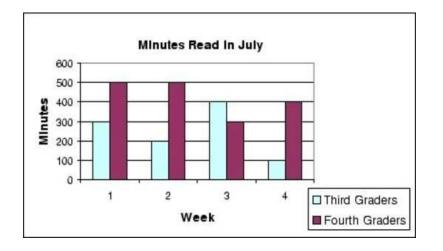
135	546	71	50	304	63	426
<u>+479</u>	<u>+137</u>	<u>- 18</u>	<u>-26</u>	+235	<u>-42</u>	<u>-135</u>
17	54	135	3.2	8.8	8.1	4.8
+18	<u>-39</u>	<u>- 53</u>	+2.8	<u>+1.3</u>	<u>-5.7</u>	-2.6
100	(21	0.42	(00)	05	206	70
400	621	842	699	85	286	73
<u>- 37</u>	<u>- 57</u>	<u>- 51</u>	<u>+23</u>	<u>+57</u>	<u>- 44</u>	<u>+45</u>

100. 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>

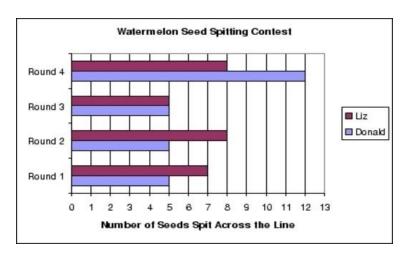
C. 1/3, 1/4, 1/2

101. 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.

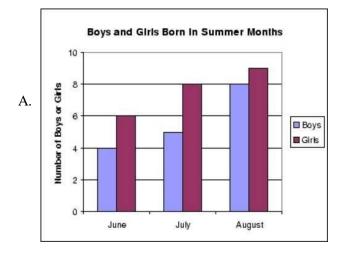


- A. 250
- B. 400
- C. 1000
- D. 2700

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



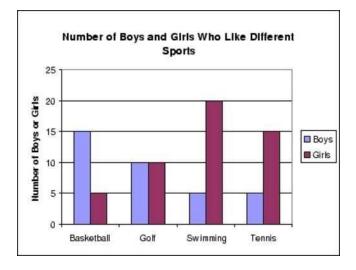
- A. 1
- B. 4
- C. 5
- D. 7



103. How many more girls were born in June through August then boys?

- A. 5 B. 6
- C. 7
- D. They are the same

104. How many more boys like baseball than girls?



- A. 5
- B. 10
- C. 15
- D. 20

105. Do the following divisions using the partial quotients method. Then check your answer. Show your work. No calculators!

Check your work:

- A.  $1,524 \div 6 =$ \_\_\_\_\_\_ <u>x 6</u> 1524
- B. 380 ÷ 10 = \_\_\_\_\_

 $\frac{x \quad 10}{380}$ 

C.  $4,235 \div 10 =$ \_\_\_\_\_

D. 4) 769

X\_\_\_\_\_

X\_\_\_\_\_

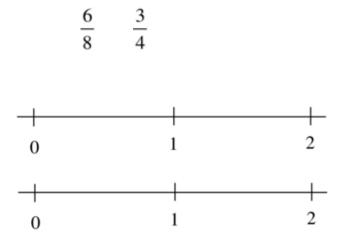
E. 5) 765

X\_\_\_\_\_

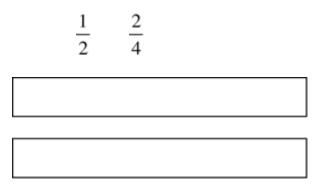
106. Shade 3/5 of the boxes below:

		I I	1
		I I	1

107. Place these two fractions on the two number lines below to show why they are equivalent.



108. Show how these two fractions are equal by shading some of each rectangle.

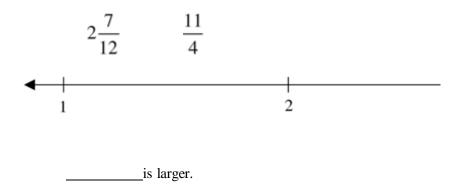


109. Explain how these two fractions are equal.

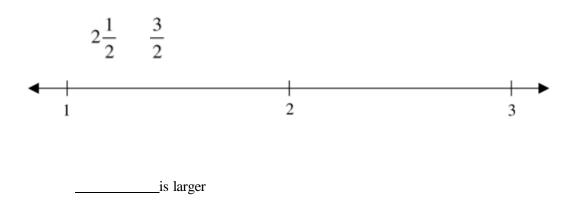
1/3 2/6

You may use fraction bars or number lines to illustrate your explanation.

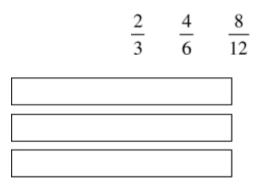
110. Locate these two fractions on the number line, label each, and then explain which is larger.



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

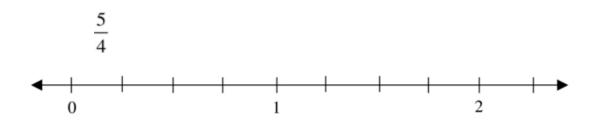


112. On the strips below, shade and label the following fractions.



Largest fraction	
Mid size fraction	
Smallest fraction	

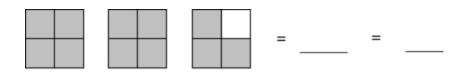
113. Locate and label this fraction on the number line. Then write it as a mixed number:



114. Write this fraction as a mixed number. Then create a picture that represents it as a mixed number:

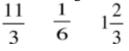


115. Identify the shaded portion of this picture as a mixed number and an improper fraction.



Write the following

fractions in order from least to greatest: Draw a picture



116. Write the following fractions in order from greatest to least.

$$1\frac{1}{4}$$
  $\frac{3}{4}$   $\frac{9}{4}$ 

## 117. Solve the following problems:

$$\frac{3}{4} + \frac{2}{4} =$$

$$\frac{3}{4} - \frac{2}{4} =$$

$$\frac{8}{12} - \frac{1}{4} =$$

$$\frac{8}{12} + \frac{1}{4} =$$

118. Using a ruler and a tool or object with a 90 degree corner, draw and label all of the following: A pair of intersecting lines that is not perpendicular.

A pair of perpendicular lines.

A pair of parallel lines.

Draw a right angle.

Draw an obtuse angle.

## 119. 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	$\begin{array}{ccc} 12 & 1 \\ \underline{x3} & \underline{x3} \end{array}$
<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>	
8	8	12	8	12	5	3	4	2	7	6	2	6 12
<u>x0</u>	<u>x1</u>	<u>x4</u>	<u>x9</u>	<u>x0</u>	<u>x1</u>	<u>x2</u>	<u>x0</u>	<u>x2</u>	<u>x1</u>	<u>x8</u>	<u>x6</u>	<u>x7 x5</u>
8	4	2	9	12	11	2	7	0	6	1	5	$\begin{array}{ccc} 3 & 2 \\ \underline{x3} & \underline{x4} \end{array}$
<u>x5</u>	<u>x1</u>	<u>x8</u>	<u>x7</u>	<u>x8</u>	<u>x6</u>	<u>x9</u>	<u>x4</u>	<u>x2</u>	<u>x9</u>	<u>x0</u>	<u>x2</u>	
4	12	4	4	1	2	11	6	7	5	2	1	4 11
<u>X9</u>	<u>x6</u>	<u>x2</u>	<u>x3</u>	<u>x4</u>	<u>x3</u>	<u>x7</u>	<u>x1</u>	<u>x8</u>	<u>x3</u>	<u>x7</u>	<u>x8</u>	<u>x5 x4</u>

120. Find the quotients.

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
2)16	3)3	3)15	5)20	3)18	3)6	5)15	7)0	9)27	4)16	7)21	4)20	7)28
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	ō=			18 ÷ 6 =			42 ÷ 7 =		
10 ÷ 2 =			54 ÷ 6 =				36 ÷ 9 =			45 ÷ 5 =		
72 ÷ 8 =			8 ÷ 2 =				72 ÷ 9 =			6 ÷ 1 =		
25 ÷ 5 =			5 ÷ 5 =				18 ÷ 2 =			30 ÷ 5		

**CONGRATULATIONS!!!** You have completed the summer math packet. You are now ready for 5<sup>th</sup> grade success! Please turn this packet into you 5<sup>th</sup> grade teacher, the first week of school in September.

