#### THIRD GRADE

## GRADE LEVEL EXPECTATIONS IN MATHMATICS

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

- 1. Read, write and order numbers to 10,000 in both numerals and words.
- 2. Identify the place value of a digit in a number. Example: 3,241, the 2 is in the hundreds place.
- 3. Recognize and use expanded notation for numbers to 9,999. Example: 2,517 is 2,000 + 500 + 10 + 7; and 4 hundreds and 2 ones is 402.
- 4. Can count orally by 6's to 72, 7's to 84, 8's to 96 and 9's to 108. From previous years they should already know how to count by 2's, 3's, 4's, 5's and 10's.
- 5. Know even numbers end in 0, 2, 4, 6, or 8 and odd numbers end in 1, 3, 5, 7, or 9.
- 6. Add and subtract **fluently** two numbers with regrouping through 999.
- 7. Can estimate the sum or difference of two numbers with 3 digits (rounding the numbers then adding or subtracting them).
- 8. Know multiplication facts through 10 x 10 fluently.
- 9. Understand multiplication and division fact families and the inverse relationship of these two operations (just like addition and subtraction). Example:  $3 \times 8 = 24$ , the  $24 \div 8 = 3$  and  $24 \div 3 = 8$ .
- 10. Can solve  $7 \times \underline{\hspace{1cm}} = 42 \text{ or } 12 \div \underline{\hspace{1cm}} = 4 \text{ using the above inverse relationship between multiplication}$  and division as stated in #9. Example:  $7 \times \underline{\hspace{1cm}} = 42 \text{ think } 42 \div 7 = 6 \text{ so } 7 \times 6 = 42.$
- 11. Mentally calculate a product up to a three-digit number (even hundreds) by a one digit number. Example:  $500 \times 3$  (5 x 3 = 15 then add 2 zeros at the end for 1500) or  $70 \times 4$  (7 x 4 = 28 then add a zero for 280).
- 12. Understand basic fractions and the terms numerator and denominator.
- 13. Recognize, name and use equivalent fractions with denominators 2, 4 and 8. Can use fraction strips.
- 14. Recognize that addition and subtraction of fractions with same denominators. Example  $\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ .
- 15. When dealing with money, can relate fractions, decimals with dollars. Example:  $\frac{1}{2}$  dollar = \$0.50, fifty cents and;  $\frac{1}{4}$  dollar = \$0.25, one quarter, 25 cents.
- 16. Add and subtract money in dollars and cents.
- 17. Use common units of measurements in length, weight, and time. Example: 12 inches = 1 foot; 3 feet = 1 yard; 16 ounces = 1 pound; 60 minutes = 1 hour; 24 hours = 1 day; 12 months = 1 year.
- 18. Know benchmark temperatures such as freezing (32°F, 0°C); boiling (212°F, 100°C).
- 19. Know that <u>meters</u> and centimeters are measurement like feet and inches; kilograms and grams are weight like pounds; <u>liters</u> and milli<u>liters</u> are like ounces (capacity of liquid).
- 20. Can calculate the perimeter of a square or rectangle. Perimeter is the outer edge; you add the lengths of the 4 sides.
- 21. Understand that area of a square or rectangle is the space in the middle (length x width).
- 22. Identify perpendicular and parallel lines. Perpendicular- two lines that form a right angle.

  Parallel- two lines that will never cross they go along side one another.
- 23. Identify two-dimensional shapes: parallelogram, trapezoid, circle, rectangle, square, and rhombus.
- 24. Identify three-dimensional solids: cube, rectangular prism, sphere, pyramid, and cone. Faces are the flat surface, edges are the straight folds where 2 faces come together, vertices is the point where 3 or more edges come together.
- 25. Read and interpret bar graphs
- 26. Knows maximum, minimum and range of a set of values. Range is the largest subtract the smallest.

### 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.com Click the red box, select math, select HSPMath, select Michigan, click on the "3" ball or "4" 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 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 3. Select any games. Extra Help and Extra Practice is good, also eGames.

www.illuminations.nctm.org Select activities then select grade level. Click on Search.

www.aaamath.com At the top pick "Third" or "Fourth" 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 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**

**Sum:** the answer to an addition problem.

**Difference:** the answer to a subtraction problem. **Product:** answer to a multiplication problem. **Quotient:** answer to a division problem.

Edges: This is all the straight lines of a figure. Like the edge of a desk, where 2 faces come together.

Faces: This is the flat surface of a figure.

Vertex: This is all the corners of a figure. The point where 3 or more edges come together.

Perimeter: You add up <u>all</u> the sides. (You are adding all lengths of the outer edges together.)

**Area**: Area of a square or rectangle = length (l) x width (w) answer is written in "square inches" (or whatever the measurement is)

Area of a parallelogram is length x height.

Answer written in "square inches" (or whatever measurement)

**Median**: Arrange numbers from smallest to largest. What number is in the <u>mid</u>dle? That is the <u>Med</u>ian number.

**Mode**: What number occurs most often? This number is the mode.

Range: Subtract the largest number in the group from the smallest number in the group.

This number is the range.

**Maximum:** Largest number in the set of numbers. **Minimum:** Smallest number in the set of numbers.

#### Conversion:

60 seconds = 1 minute

60 minutes = 1 hour

24 hours = 1 day

12 months = 1 year

12 inches = 1 foot 3 feet = 1 yard

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10 millimeter = 1 centimeter (approx. 3 ½ centimeters = 1 inch) 100 centimeter = 1 meter (approx. 1 meter = 1 yard)

# Entering 4<sup>th</sup> Grade Summer Math Packet

First Name:							Last Name:						
4 <sup>th</sup>	Grade T	Геасhег	:										
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DO	NOT "	50 0 00l	laulatam	. who			2.77.0						
	NOT u												
	1. Writ	te the pr	oducts:	Practic	e any y	ou do n	ot knov	v quickl	y.				
4 <u>x2</u>			2 <u>x5</u>	2 <u>x3</u>	7 <u>x5</u>		12 <u>x4</u>			9 <u>x4</u>		0 <u>x2</u>	
3 <u>x3</u>	9 <u>x5</u>		5 <u>x5</u>	7 <u>x4</u>	10 <u>x4</u>	6 <u>x4</u>	5 <u>x2</u>	11 <u>x5</u>	1 <u>x3</u>	4 <u>x5</u>	8 <u>x2</u>	11 <u>x4</u>	
6 <u>x5</u>			3 <u>x4</u>	9 <u>x3</u>	10 <u>x2</u>	12 <u>x3</u>	3 <u>x5</u>	7 <u>x3</u>	4 <u>x4</u>	9 <u>x2</u>	4 <u>x3</u>	12 <u>x2</u>	
	A. 1	429 492 924 942 rrectly ( 9,999 0,400								o. In wh	at year	was she	born?
4. W	D. 6.  Which nu A. 5, B. 52 C. 52	mber is 239 2,039 2,309	fifty-tw	o thous	and, th	ree hund	dred nin	e?					
5. W	That is th A. 1 B. 6	e digit i	in the te	n-thous	ands pla	ace of tl	he numb	oer 68,1	73?				

<ul> <li>6. What is the place value of the 8 in the number 5,280?</li> <li>A. ones</li> <li>B. tens</li> <li>C. hundreds</li> <li>D. thousands</li> </ul>	
<ul> <li>7. Which number is equal to 5,912?</li> <li>A. 5 hundreds, 9 tens, and 12 ones</li> <li>B. 5 thousands, 91 hundreds, and 12 ones</li> <li>C. 5 thousands, 9 hundreds, and 12 ones</li> <li>D. 5 thousands, 9 hundreds, 1 ten, and 2 ones</li> </ul>	
<ul> <li>8. The number 9,036 is equal to which of the following?</li> <li>A. 900 + 30 + 6</li> <li>B. 90 + 30 + 6</li> <li>C. 9000 + 30 + 6</li> </ul>	
<ul> <li>9. Which number means 7 thousands, 4 tens and 5 ones?</li> <li>A. 745</li> <li>B. 7,045</li> <li>C. 7,450</li> </ul>	
10. Which number goes in the blank to make the statement below true?  5,642 < < 6,633  A. 6,931  B. 5,610  C. 6,745  D. 5,841	
11. When counting by 6's, which of the following patterns is correct?  A. 0, 6, 12, 16, 22, 28, 34  B. 0, 6, 12, 18, 25, 31, 37  C. 0, 6, 12, 18, 24, 30, 36	
12. What number comes next in this pattern 41, 43, 45, 47,?  A. 48 B. 49 C. 50	
<ul> <li>13. Which number can be shared in two equal groups with no remainder?</li> <li>A. 85</li> <li>B. 490</li> <li>C. 223</li> </ul>	2
<ul> <li>14. Martina has a new box of 64 crayons. She drops the box and 17 crayons are brole. How many crayons are NOT broken?</li> <li>A. 47 crayons</li> <li>B. 57 crayons</li> <li>C. 53 crayons</li> <li>D. 81 crayons</li> </ul>	cen.

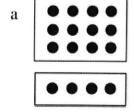
15. How much is 2,470 + 1,423? Show your work. A. 1,053 B. 3,763 C. 3,893 Remember "bottom bigger better borrow" when subtracting. Do you need to borrow from the tens? 16a. 82 subtract 65 = 16b. 61 subtract 18 = A. 17 A. 52 B. 23 B. 57 C. 27 C. 43 D. 13 D. 47 17a. 80 subtract 34 = 17b. 85 subtract 64 = A. 54 A. 19 B. 46 B. 21 C. 56 C. 11 18. How much are 8,965 subtracting 3,525? Show your work. A. 5,440 C. 6,440 B. 5,480 D. 12,490 19. The lunchroom serves only hamburgers and pizza on Mondays. Last Monday, 314 students bought a lunch. There were 97 students who bought hamburgers. Which of the following is *closest* to the number of students who bought pizza? A. 100 students B. 200 students C. 300 students D. 400 students 20. The best estimate of the sum of 389 and 403 is: A. 600 B. 700 C. 800 D. 900 21. Which division statement is related to 6 x 4? A. 24 divided by 4 B. 64 divided by 4 C. 10 divided by 6 D. 24 divided by 3

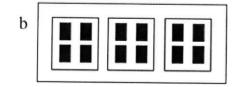
- 22. The division 354 divided by 6 can be used to solve which of the following problems?
  - A. How many school children there will be if 6 new students enroll at a school with 354 students?
  - B. How many school children will there be in a school if 6 students move away from a school with 354 students?
  - C. How many tables for 6 are needed to sit 354 people?
  - D. How many celery plants are planted in 6 rows if each row has 354 plants?

- 23. There are 36 pieces of gum in a bag. Mom empties the bag by giving 6 pieces to each of her children. How many children does she have? A. 36 divided by 6 = 6 children B. 36 + 6 = 42 children C. 36 divided by 9 = 4 childrenD. 36 - 30 = 6 children
- 24. A classroom has 5 rows of desks with 5 desks in each row. Which number sentence shows how to figure this out?
  - A. 5 + 5 = 10 desks
  - B.  $5 \times 5 = 25 \text{ desks}$
  - C.  $2 \times 5 = 10 \text{ desks}$
  - D. 5 divided by 5 = 25 desks
- 25. Which of the following is a true statement?
  - A.  $8 \times 2 = 4 \times 4$
  - B.  $1 \times 1 = 1 + 1$
  - C.  $10 \times 3 = 10 + 10$
  - D.  $6 \times 6 = 5 \times 5 + 1$
- 26. There are 8 socks in Vic's drawer. How many pairs are there?

  - B. 3
  - C. 4
  - D. 16
- 27. Which of the following is true?
  - A.  $6 \times 3 = 4 \times 4$
  - B. 20-5=19-3
  - C. 9 + 8 = 10 + 7
  - D.  $2 \times 3 = 2 + 3$
- 28. Which multiplication fact can be used to find the answer to  $56 \div 7$ ?
  - A. 7 x 5
  - B. 7 x 8
  - C. 56 x 7
- 29. Susie wants to share 30 candies among 6 friends. How many candies will each friend get?
  - A. 8
  - B. 7
  - C. 6
  - D. 5
- 30. What is the missing number in the problem 54 divided by \_\_\_\_ = 6?
  - A. 7
  - B. 8
  - C. 9

- 31. What is the missing number in the problem 7 x = 56
  - A. 7
  - B. 8
  - C. 9
- 32. Solve this problem in your head:  $500 \times 6 =$ 
  - A. 300
  - B. 530
  - C. 3000
- 33. John had exactly 32 pennies. He sorted the pennies into stacks of 5 pennies each. How many pennies were left over?
  - A. 37
  - B. 6
  - C. 2
  - D. 0
- 34. 27 students want to join teams for relay races. Each team must have 4 students. How many complete teams can be made? Would any students be left out, if any?
  - A. 5 complete teams with 2 students left out
  - B. 6 complete teams with 3 students left out
  - C. 7 complete teams with 0 students left out
- 35. May has 10 eggs that she can use to make cookies for the bake sale. Each cookie recipe calls for 3 eggs. How many full recipes can she make and how many eggs will be left over, if any?
  - A. 2 full recipes with 4 eggs left over
  - B. 3 full recipes with no eggs left over
  - C. 3 full recipes with 1 egg left over
- 36. Which picture represents the equation  $12 \div 3 = 4$ ?







- 37. A teacher marks 10 of her students' tests every half hour. It takes her one and one half hours to mark all her students' tests. How many students are in her class?
  - A. 5
  - B. 15
  - C. 20
  - D. 30

38. What fraction is shown by this strip?



- A.  $\frac{3}{4}$
- B. 6
- c.  $\frac{3}{7}$

39. Which of these two fractions are equivalent? Draw fraction strips to help you figure this out.

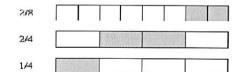
$$\frac{1}{2}$$
  $\frac{2}{4}$   $\frac{3}{8}$ 

- 1/2
- 3/8
- A.  $\frac{1}{2} = \frac{2}{4}$
- $\frac{1}{2} = \frac{3}{8}$
- $\frac{2}{4} = \frac{3}{8}$

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

- A.  $14 \times 45 = 200$
- B.  $4 \times 10 \times 40 = 200$
- C.  $4 \times 10 \times 5 = 200$
- D.  $40 \times 10 \times 5 = 200$

41. Which two of these fractions are equivalent?

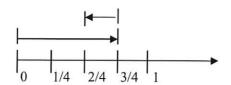


- $\frac{2}{8} = \frac{2}{4}$
- $\frac{2}{8} = \frac{1}{4}$
- $\frac{2}{4} = \frac{1}{4}$

42. Which set shows fractions ordered from least to greatest? Draw a picture.

- A.  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{6}{8}$
- B.  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$
- C.  $\frac{1}{2}$ ,  $\frac{2}{4}$ ,  $\frac{3}{8}$

43. Which number sentence is best represented by the model below?



- A.  $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$
- B.  $\frac{3}{4} \frac{1}{4} = \frac{3}{4}$
- C.  $\frac{3}{4} \frac{1}{4} = \frac{2}{4}$
- D.  $\frac{3}{4} + \frac{2}{4} = \frac{3}{4}$
- 44. Which group of fractions is in order from least to greatest? Draw a picture.
  - A. 2/2, 3/8, 3/4
  - B. 2/2, 3/4, 3/8
  - C. 3/4, 3/8, 2/2
  - D. 3/8, 3/4, 2/2
- 45. Which set shows fractions ordered from least to greatest? Draw a picture.
  - A. 1/4, 1/2, 6/8
  - B. 1/2, 1/4, 1/8
  - C. 1/2, 2/4, 3/8
- 46. Insert  $\leq$ , >, or = in the following blank lines. Draw a picture to help you.
  - A. 1/5 \_\_\_\_\_ 1/9

  - B. 1/6 \_\_\_\_\_ 1/3 C. 4/5 \_\_\_\_ 2/5
  - D. 1/2 \_\_\_\_ 2/4
  - E. 2/6 \_\_\_\_ 4/6
- 47. How many half dollars are there in \$4.50?
  - A. 9 half dollars
  - B. 18 half dollars
  - C. 10 half dollars
- 48. Ben, Susan, Alex and Tonya each received 1/□ of a dollar. How much is that?
  - A. \$25
  - B. \$.025
  - C. \$0.25
  - D. \$2.5
- 49. Eva has \$4.00 to spend on apples. Each apple costs \$0.50. How many apples can Eva buy?
  - A. 2
  - B. 4
  - C. 6
  - D. 8
- 50. Which coins does 0.50 and 0.25 represent?
  - A. 2 quarters and 2 dimes
  - B. 1 nickel and 1 quarter
  - C. 1 half dollar and 1 quarter
  - D. 5 dimes and 1 nickel

- 51. Ron, Nita, Donna and David shared \$1.00 equally. What was the exact amount each one received?
  - A. \$0.25
  - B. \$0.30
  - C. \$0.50
  - D. \$0.75
- 52. Michelle has a string which is 3 feet and 8 inches long and John has a string which is two feet and six inches long. How much longer is Michelle's string?
  - A. 2 inches
  - B. 10 inches
  - C. 1 foot and 2 inches
  - D. 1 foot and 10 inches
- 53. \_\_\_\_\_ days in a week

minutes in an hour

ounces in a pound

months in a year

inches in a foot

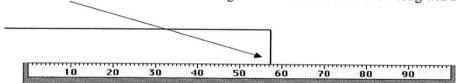
seconds in a minute

hours in a day

feet in a yard

weeks in a year

- 54. Mike began his bike ride at 2:40 p.m. and finished the ride at 3:20 p.m. How many minutes did Mike ride?
  - A. 20 minutes
  - B. 40 minutes
  - C. 60 minutes
- 55. Beth was using meter sticks to measure a long table in her classroom. She put the meter sticks end to end three times. The third meter stick went over the edge of the table like this. How long was her table?



- A. 3 Meters
- B. 58 Centimeters
- C. 58 Meters
- D. 2 Meters 58 Centimeters
- 56. What is the date two weeks after June 8?

			JUNE			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
20	30	21				

- A. June 10
- B. June 15
- C. June 22

57. Mary has a piano recital on May 25. Today is April 28. How long must she wait before the recital day?

			APRII			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

1300000			MAY			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	T

- A. 3 weeks 2 days
- B. 3 weeks 6 days
- C. 4 weeks 2 days

58. Joey is meeting Tom at the movies at 1:45. The clock below shows what time it is now. How much time does Joey has to wait before he meets Tom?



- A. 4 hours 45 minutes
- B. 5 hours 20 minutes
- C. 7 hours 20 minutes

59. Kim's little sister just turned 2 years old today. How many months old is her little sister?

- A. 2 months
- B. 12 months
- C. 24 months

60. Eric's disk measures 27 inches. How many feet and inches is that?

- A. 1 foot 3 inches
- B. 2 feet 3 inches
- C. 2 feet 7 inches

61. Which of the following represents the greatest length?

- A. 10 inches
- B. 1 1/2 inches
- C. 1 1/2 feet
- D. 1 foot

62. Which of the following is the shortest measurement?

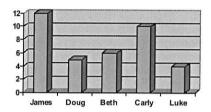
- A. 1 yard
- B. 2 feet
- C. 26 inches
- D. 1 foot 10 inches

63. Write the products. Any that you do not know quickly, practice.

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>	
9		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>	x9
												-
			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>	x8	x9	x6

64. The graph below shows the number of pet fish owned by 5 friends.

Pet Fish Owned



What was the minimum number of fish owned by one friend?

- A. 12
- B. 10
- C. 4
- D. 2

What was the maximum number of fish owned by one friend?

- A. 12
- B. 10
- C. 4
- D. 2

65. It took Lily 35 hours to drive from Michigan to Texas. How many days and hours did she drive?

- A. 1 day 11 hours
- B. 1 day 19 hours
- C. 3 days 5 hours

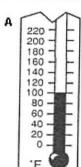
66. Brad can long jump 1 meter 9 centimeters. How many centimeters is that?

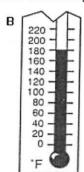
- A. 19 centimeters
- B. 109 centimeters
- C. 1,009 centimeters

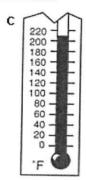
67. Which temperature is hotter than the boiling point of water?

- A. 58° C
- B. 98° C
- C. 107° C

- 68. Chris just put his grape juice in the freezer to make Popsicles. At what temperature will the Popsicles start to freeze?
  - A. 32° F
  - B. 0° F
  - C. -32° F
- 69. Brandon and Ashley are building a snowman on their day off of school. Which is the best estimate of the outdoor temperature?
  - A. 20° C
  - B. 35° C
  - C. 45° C
- 70. Which thermometer shows the boiling point of water?







6 cm

12 cm

- 71. What is the perimeter of the above rectangle?
  - A. 18 cm
  - B. 30 cm
  - C. 36 cm
- 72. What is the area of the above rectangle?
  - A. 36 square cm
  - B. 72 square cm
  - C. 36 square cm
  - D. 18 cm
- 73. Draw a rectangle with one side 1 inch and the other side of 3 inches. Then find the perimeter of the rectangle.
  - A. 3 inches
  - B. 4 inches
  - C. 6 inches
  - D. 8 inches

/4.		o you need to bor		the 5 (tens).	row For exa	mple: $52 - 16$ ,	the 2 is bigger
75.	$\begin{array}{c} 28 \\ - 9 \\ \text{What is the are} \end{array}$	34 - 7 a of this rectangle?	47 -19	75 <u>-37</u>	64 -14	41 <u>- 9</u>	69 <u>- 5</u>
	5 cm						
	A. 14 cm B. 14 cm C. 45 cm D. 45 cm <sup>2</sup>	2					
76.	Which of these	squares is closer to	o 1 square o	centimeter? A or	т В		
	а			b			
77.	family has bee living in Michi A. 5 years B. 8 years	friend Kyle that his n living in Michiga igan than Victor's f and 5 months and 7 months and 9 months	n for eight	oved to Michigan the years and seven mo	ree years and t onths. How m	wo months ago. uch longer has Ky	Kyle said his /le's family beer
78.		hen Brian finishes nes es		eet long and asked I	Brian to cut off	six inches. How	long should
79.	In gym, Joe jum Bob's jump the A. 1 foot 2 B. 2 feet 1 C. 7 feet 1	nn Joe's jump? 2 inches inch	s in the lon	g jump. Bob jumpe	d 4 feet 6 inch	es. How much lo	onger was
80.	on Wednesday A. 2 ho B. 2 ho	. How much time of	lid she spe	n Tuesday. She wo nd doing homework			nd 45 minutes

81.	Jim's cat weighs 8 pounds 7 ounces. Betty's cat weighs 9 pounds 4 ounces. How much do the two cats weigh together?
	<ul> <li>A. 18 pounds 11 ounces</li> <li>B. 17 pounds 3 ounces</li> <li>C. 17 pounds 11 ounces</li> <li>D. 18 pounds 3 ounce</li> </ul>
82.	What is 2 minutes and 45 seconds plus 1 minute and 45 seconds?
	<ul> <li>A. 3 minutes and 30 seconds</li> <li>B. 4 minutes and 15 seconds</li> <li>C. 4 minutes and 30 seconds</li> <li>D. 4 minutes and 45 seconds</li> </ul>
83.	Victoria has 15 dollars and 67 cents. If she borrows 10 dollars and 58 cents from her dad, how much money will she have altogether?
	<ul> <li>A. 25 dollars</li> <li>B. 25 dollars and 25 cents</li> <li>C. 26 dollars</li> <li>D. 26 dollars and 25 cents</li> </ul>
84.	Andy had \$9.85. He bought a toy for \$5.52. How much money does Andy have left?
	A. \$3.24 B. \$4.33 C. \$5.43 D. \$15.37
85.	Anna had \$2.25. She was given \$5.50 for her birthday. Anna then spent \$4.35 on a new book. How much Money does Anna have now?
	A. \$1.15 B. \$3.25 C. \$3.40 D. \$7.75
86.	Lance has \$5.62. If he wants to buy a book that costs \$16.95, how much more money will Lance need?
	A. \$5.93 B. \$9.66 C. \$11.33 D. \$22.57
87.	Write the following numbers in expanded notation. Ex. $432 = 400 + 30 + 2$
	3,402 =++
	5.325 = + + +

88.	Sally is 5 years and 5 months old. Her brother, Kevin, is 8 years and 6 months old. How much older is Kevin than Sally?
	<ul> <li>A. 2 years and 1 month</li> <li>B. 2 years and 11 months</li> <li>C. 3 years and 1 month</li> <li>D. 3 years and 11 months</li> </ul>
89.	Stan wants to buy enough paint to cover an area of one wall of his bedroom. The wall is 8 feet high and 10 feet wide. How many square feet will the paint need to cover?
	A. 18 square feet

wide.	How many square feet will the paint need to cover?
A.	18 square feet
В.	36 square feet
C.	80 square feet

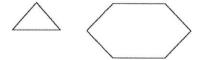
- 90. Which figure has four sides? (You can look the terms up in a dictionary.)
  - A. Trapezoid B. Circle

D. 88 square feet

- C. Triangle
- D. Pentagon
- 91. How many right triangles would it take to make a square? Answer the question below, then show your answer by making a drawing.



- A. 2
- B. 3
- C. 4
- D. 6
- 92. How many triangles would it take to make this hexagon?



- A. 2
- B. 3
- C. 4
- D. 6

93.



How many vertices are on the cube?

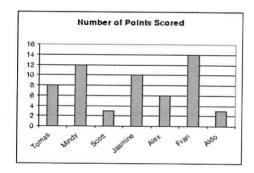
- A. 6 vertices
- B. 8 vertices
- C. 12 vertices

How many edges are on the cube?

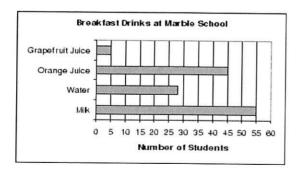
- A. 6 edges
- B. 8 edges
- C. 12 edges

How many faces are on the cube?

- A. 4 faces
- B. 6 faces
- C. 8 faces
- 94. The shape of on orange is similar to a \_\_\_\_\_
  - A. cone
  - B. cube
  - C. prism
  - D. sphere
- 95. What figure has four triangular faces and one square face?
  - A. Square prism
  - B. Triangular prism
  - C. Triangular pyramid
  - D. Square pyramid
- 96. This chart shows how many points were scored by members of a basketball team. How many players scored 10 or more points?



- A. 1
- B. 2
- C. 3
- D. 4
- 97. 133 fourth grade students were asked what they drink with breakfast in the morning. Here is a bar graph of their responses.

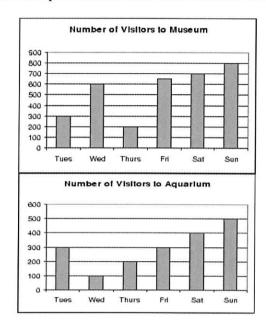


What is the range of this data?

- A. 28
- B. 50
- C. 55
- D. 60

What is the mean of this data? You can use a calculator for this.

- A. About 133
- B. About 33
- C. About 28
- 98. Did the museum or the aquarium have more visitors for the week?



- A. Aquarium
- C. They are the same.
- B. Museum
- D. There is not enough information to decide.
- 99. Solve each of these without using a calculator:

$$2 \times 9 =$$

$$3 \times 4 =$$

$$32 \div 4 =$$

$$45 \div 9 =$$

$$8 \times 7 =$$

$$3 \times 8 =$$

100. What is 500 x 8? Explain how you figured this out, without using a calculator.