

Summer Mathematics Students Entering Grade 5 in August

Instructions: Please complete the Math packet and return to Mr. Piorek during the first week of school in August.



Hello, rising fifth-graders.

Attached please find the Summer Mathematics packet for students entering fifth-grade. Please complete the packet neatly and in pencil this Summer.

There are a total of 53 problems, so use your time wisely. You are encouraged to practice your Math facts daily.

I will collect the completed packet during the first week of school. Have a great Summer.

Sincerely,

Mr. Paul Piorek

Fifth-Grade Teacher

St. Thomas Aquinas Catholic School



Students Entering Fifth Grade

Summer Math Packet

Name_____

Place Value

1.) A local car dealer sold 870 cars last month. He sold 100 MORE cars this month than last month. How many cars did he sell this month?

- a) 770
- b) 870
- c) 970
- d) 1070

2.) Which means the same as 7,046?

- a) 7000 + 40 + 6
- b) 7000 + 406
- c) 700 + 40 + 6
- d) 70 + 46

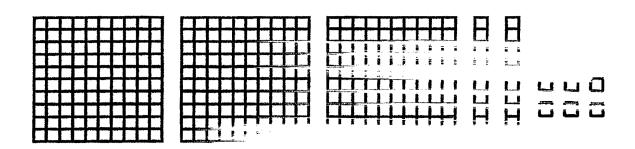
3.) Which means the same as 95?

- a) 9 tens and 15 ones
- b) 90 tens and 5 ones
- c) 8 tens and 15 ones
- d) 7 tens and 15 ones

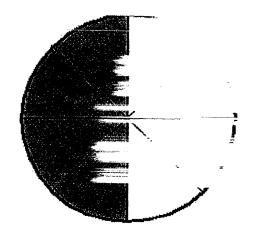
4.) In which number does 4 have the GREATEST value?

- a) 34
- b) 43
- c) 435
- d) 534

Pictorial Representations of Numbers

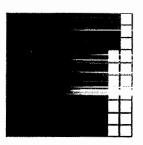


- 5.) What number is shown by the blocks pictured above? _____
- 6.) What fractional part of this figure is shaded?



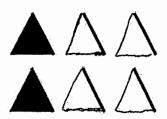
- ı) c
 - 1
- b) 4
 - 1
- c) 2
 - <u>3</u>
- d) ₄

7.) The shaded part of this picture shows what decimal number?

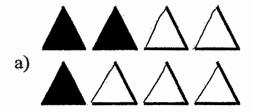


- a) 0.17
- b) 0.38
- c) 0.83
- d) 1.3

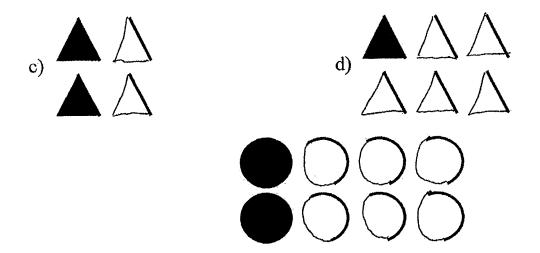
Equivalent Fractions, Decimals, and Percents



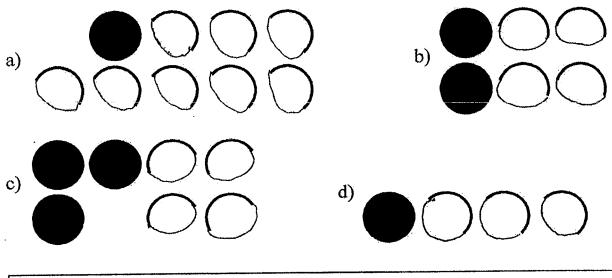
8.) Which picture below has the same fractional part shaded as the picture above?







9.) Which picture below has the same fractional part shaded as the picture above?



Order, Magnitude, and Rounding of Numbers

10.) The table below shows games won by the players in a tournament.

CHECKERS TOURNAMENT

Players	Games Won
Eric	162
Mark	97
Jeff	184
Zach	76

What is the correct order of games won by the players from LEAST to GREATEST?

- a) Zach, Mark, Eric, Jeff
- b) Eric, Zach, Jeff, Mark
- c) Jeff, Eric, Mark, Zach
- d) Mark, Jeff, Eric, Zach
- 11.) The table below shows the speeds of four animals.

SPEEDS OF ANIMALS

Animal	Speed (mph)
Cheetah	70
Elk	45
Pronghorn	60
Lion	50

What is the correct order of speed of the animals from GREATEST to LEAST?

- a) cheetah, lion, elk, pronghorn
- b) cheetah, pronghorn, lion, elk
- c) cheetah, elk, pronghorn, lion
- d) elk, lion, pronghorn, cheetah

12.) The table below shows the number of miles four travelers have flown.

TRAVELER'S MILES

Name	Number of Miles
Harlan	5,875
Missy	4,083
Tamika	6,172
Randy	8,497

- a) Harlan
- b) Missy
- c) Tamika
- d) Randy
- 13.) The table below shows the population of four towns.

TOWN POPULATION

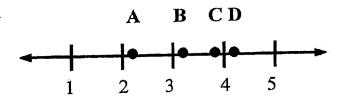
Town	Population
Maple Ridge	8,715
Silver Springs	4,270
Center City	6,294
Pine Valley	7,804

Which town has the GREATEST population?

- a) Maple Ridge
- b) Silver Springs
- c) Center City
- d) Pine Valley
- 14.) There are 807 students at Jaclyn's school. This number is CLOSEST to:
 - a) 600
 - b) 700
 - c) 800
 - d) 900
- 15.) A television set costs \$248. This number is CLOSEST to:
 - a) \$250
 - b) \$275

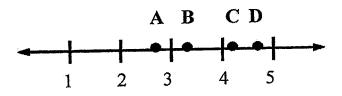
- c) \$300
- d) \$350

16.) On the number line below, the number 3.2 is **CLOSEST** to which labeled point?



- a) A
- b) B
- c) C
- d) D

17.) On the number line below, the number $4\frac{2}{3}$ is **CLOSEST** to which labeled point?



- a) A
- b) B
- c) C
- d) D

Models for Operations

18.) There are 2 cupcakes in a package. Mrs. Carroll bought 4 packages. Which number sentence could be used to find out how many cupcakes she bought?

a) $4 \div 2 = \square$
b) $4 + 2 = \Box$
c) $4 \times 2 = \square$
d) $4-2=\square$
She needs to put her crayons in boxes. Each box
holds 8 crayons. Which number sentence could be used to find out how many
boxes Jennifer will need?
a) 24 ÷ 8 = □
b) 24 x 8 = □
c) 24-8= \square
d) $24 + 8 = \square$
20.) Write a story problem that can be solved using the number sentence
$8 \times 6 =$
the selved using the number sentence
21.) Write a story problem that can be solved using the number sentence $63 \div 9 =$
03 .

Basic Facts

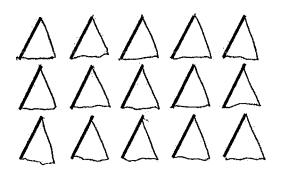
22.) Solve this problem:

$$5 \times 9 =$$

- a) 30
- b) 40
- c) 45
- d) 55
- 23.) Solve this problem:

$$36 \div 9 =$$

- a) 4
- b) 6
- c) 9
- d) 12
- 24.)



Which number sentence describes the triangles above?

- a) $3 + 5 = \square$
- b) $3 \times 5 = \Box$
- c) $5 \div 3 = \square$
- d) $5-3=\Box$

Computation with Whole Numbers and Decimals

25.) Solve this problem:

26.) Solve this problem:

Solve Word Problems

27.) The 56 students in the fifth grade were divided into 8 teams. Charlotte was on Team 5. How many students were on each team?

- a) 7
- b) 8
- c) 40
- d) 56

28.) Martin spent \$2.60 on his lunch. Sandwiches cost \$1.25. Milkshakes cost \$0.65. How much MORE does a sandwich cost than a milkshake?

29.) Sue-Lee scored 93 points on a science test on Monday and 77 points on a science test on Friday. What was the difference between her two scores?

30.) Tamara read 197 pages of a library book on the weekend and 129 pages during the week. How many pages did she read altogether?

31.) Solve this problem then explain your thinking. Maxwell has 25 baseball trading cards to give away. If he gives them equally to 5 friends, how many cards will each friend get?
32.) Solve this problem then explain your thinking. Adrian bought 4 packs of apple juice. If there are 6 bottles of juice in each pack, how many bottles of apple juice did she buy?
Numerical Estimation Strategies

- 33.) Bob needs to subtract 195 from 2,613. To get a GOOD ESTIMATE of this difference, which expression would be **BEST** to use?
 - a) 2,600 200
 - b) 2,700 200
 - c) 2,700-100

Estimating Solutions to Problems

- 34.) Today Pamela is on page 195. For tomorrow's assignment she must read to page 237. ABOUT how many pages does she have left to read?
 - a) 30
 - b) 40
 - c) 50
 - d) 500
- 35.) Toni had \$7.95. She spent \$3.15. ABOUT how much money does she have left?
 - a) \$3.00
 - b) \$5.00
 - c) \$12.00
 - d) \$400.00

|--|

- 36.) The Judds started working in the garden at 1:50. They worked for 2 hours and 15 minutes. At what time did they stop working?
 - a) 4:05
 - b) 3:05

- c) 2:25
- d) 11:35

Approximating Measures

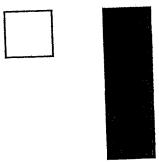
37.) If Box A is 4 units long, ABOUT how long is Box B?

Box A

Box B

- a) 5 units
- b) 3 units
- c) 2 units
- d) 1 unit

38.) If the white shape covers and area of 12 square feet, ABOUT how many square feet would the shaded shape cover?

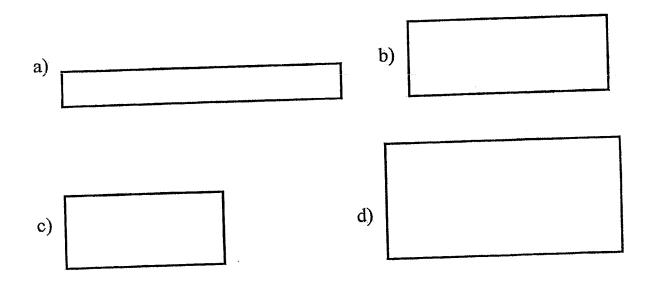


- a) 9 square feet
- b) 36 square feet

- c) 72 square feetd) 108 square feet

Customary	and Metric M	easures	
<u> </u>			

39.) Use your ruler to determine which of the figures below has a perimeter of 14 centimeters.



- 40.) The amount of milk in a glass would BEST be measured in
 - a) ounces
 - b) gallons
 - c) quarts
 - d) pounds

a) 2 meters b) 2 kilometers c) 2 centimeters d) 2 liters Geometric Shapes and Properties
Geometric Shapes and Properties
42.) Draw a pentagon. Then write one or two sentences to describe this figure.
43.) Draw a parallelogram. Then write one or two sentences to describe this figure.

Tables, Graphs, and Charts	

44.) The chart below shows the popularity of amusement park rides during one day.

AMUSEMENT PARK RIDES

Ride	Number of Riders
Merry-Go-Round	460
Roller Coaster	842
Ferris Wheel	891
Bumper Cars	967

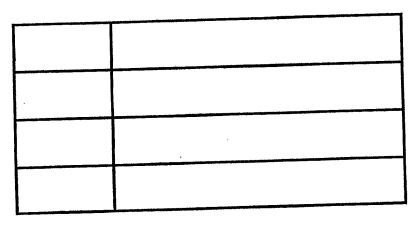
ABOUT how many people rode the Bumper Cars?

- a) 500
- b) 600
- c) 900
- d) 1,000

45.) Complete and label the PICTOGRAPH using the following information.

SAM'S T-SHIRTS

Color	Number of Shirts
Red	20
Blue	12
Green	8
White	16

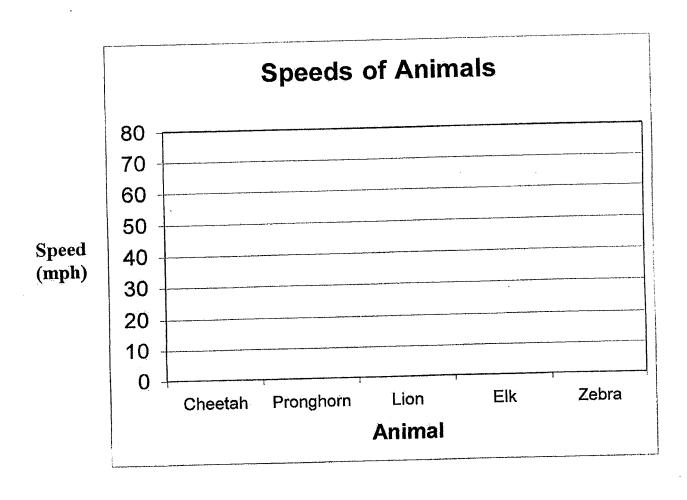




46.) Complete and label the BAR graph using the following information.

SPEEDS OF ANIMALS

Animal	Speed (mph)
Cheetah	70
Pronghorn	60
Lion	50
Elk	45
Zebra	40



Statistics and Data Analysis

47.) The table shows the favorite book types of fourth and fifth graders.

TYPE OF ROOK	FOURTH GRADERS	FIFTH GRADERS
	24	31
Adventure	6	7
Animals	0	12
Biography	11	13
Mystery	26	18
Sports	11	21

Which statement about the survey is TRUE?

a) Animal books were the most popular.

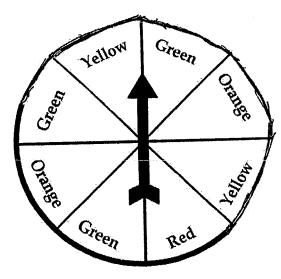
b) More fifth graders than fourth graders answered the survey.

c) More fourth graders than fifth graders chose biography books.

d) More than 30 students chose biography books.

Probability

48.) If Hank spins this spinner once, on which color is the arrow MOST likely to land?



a) Yellow

b) Green

c) Orange

Patterns

49.) What is the next number in this pattern?

Write the number. Then write a sentence to explain why you chose this number.

50.) Draw the figure that should come next in the pattern. explain how you decided what to draw.	Write a sentence to
Classification and Logical Reasoning	

- 51.) Tom made a list of the height of several friends. He wants to change this list into 2 new lists:
 - friends taller than 56 inches
 - friends shorter than 56 inches

Write the new lists for Tom.

Tom's New Lists

Tom's O	riginal List	Shorter than 56 inches	Taller than 56 inches
Janet	55 inches		
Rhea	60 inches		
June	48 inches		
Carolyn	59 inches		
Felicia	49 inches		
Elise	63 inches		
Ginny	48 inches		
Jack	53 inches		
Brian	57 inches		
Howard	47 inches		
Ann	59 inches		

52.) Sort all 8 of these activities into 2 groups so that the activities in each group have something in common. Show how you grouped these activities by writing its name in the chart. Write a sentence that explains why you grouped them this way.

playing tag	 playing soccer
 playing Nintendo 	eating dinner
 playing Monopoly 	sleeping
 walking the dog 	• reading

Group 1	Group 2	

Mathematical Applications

53.) Tory sells stuffed animals. She sells large stuffed animals for \$9 and small stuffed animals for \$4.