

NAME: _____

Dear GPMS Grade 5 Scholar,

You have learned SO much this year!! It is important that you keep building and practicing your mathematical knowledge over the summer to be ready for 6th grade.

Directions:

1. Complete the multiple choice practice
 - a. Bubble your answers with pencil
 - b. Bring the answer sheet to your 6th grade teacher on the 2nd day of school: this will be your first grade for 6th grade, so don't forget it!
 - c. Show all your work in the packet!
2. Practice Multiplication Facts
 - a. We've worked so hard to improve our Math facts! Keep practicing over the summer so you don't forget them. Record the ones that you have a hard time with and keep practicing those. If you know all your facts, time yourself, and try to get them all in one minute or less. 😊

Don't forget to bring your Math practice packet on the second day of 6th grade.

Enjoy your summer! Happy Learning!

~ Mrs. Stoller

Numeration, Patterns, and Relationships

Read each question. Then mark your answer on the sheet.

1. What is the value of the 4 in 5,224,759,600?

- A Four thousand
- B Forty thousand
- C Four hundred thousand
- D Four million

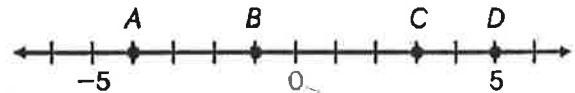
2. Which list shows these numbers ordered from greatest to least?

- A 7,890,900; 7,809,900; 5,475,700; 4,979,450
- B 7,809,900; 7,890,900; 5,475,700; 4,979,450
- C 4,979,450; 5,475,700; 7,890,900; 7,809,900
- D 4,979,450; 5,475,700; 7,809,900; 7,890,900

3. A company raised \$17,517,859 for charity. Rounded to the nearest hundred thousand, how much money was raised?

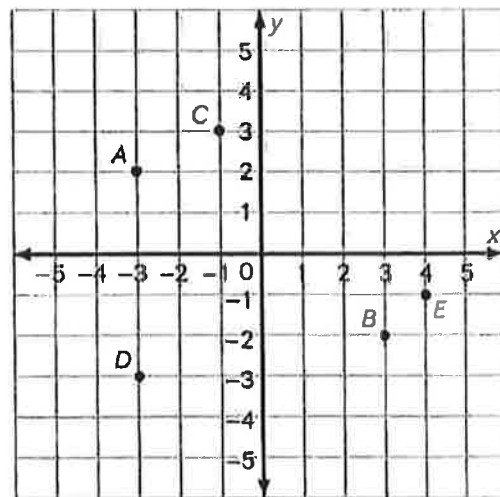
- A \$17,000,000
- B \$17,500,000
- C \$17,500,900
- D \$18,000,000

4. Which number shows the location of point B?



- A -2
- B -1
- C 2
- D 3

5. Which ordered pair names point A?



- A (-1, 3)
- B (-3, 2)
- C (3, -2)
- D (2, -3)

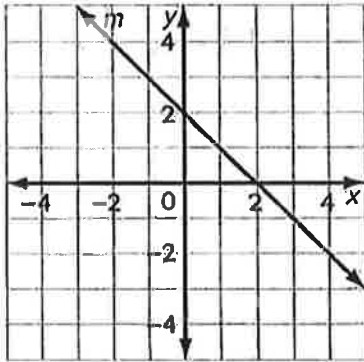
6. What is the distance between points at (4, 1) and (4, 5)?

- A 5 units
- B 4 units
- C 3 units
- D 2 units

Numeration, Patterns, and Relationships (continued)

Read each question. Then mark your answer on the sheet.

7. Which ordered pair is located on line m ?



- A (-1, 3)
- B (1, -3)
- C (-2, -4)
- D (2, 4)

8. Which equation matches the table?

m	n
3	9
6	12
1	7
7	13

- A $n = m + 6$
- B $n = m + 5$
- C $n = 2m$
- D $n = 3m$

9. Evaluate $(18 \div 3) \div (9 - 7)$.

- A 1
- B 3
- C 8
- D 12

10. A gallon of milk contains 128 ounces. Which expression shows the number of ounces in g gallons?

- A $128 + g$
- B $128 \div g$
- C $128g$
- D $g - 128$

11. If $n = 15$, what is $423 - n$?

- A 438
- B 408
- C 293
- D 273

12. Find the value of n .

$$\frac{n}{5} = 8$$

- A $n = 40$
- B $n = 32$
- C $n = 13$
- D $n = 3$

13. Find the value of n .

$$7(n + 5) = (7 \times 4) + (7 \times 5)$$

- A $n = 3$
- B $n = 4$
- C $n = 5$
- D $n = 6$

14. What value of b makes the equation true?

$$(7 \times 3) \times 4 = 7 \times (b \times 4)$$

- A $b = 3$
- B $b = 4$
- C $b = 7$
- D $b = 10$

Name _____

Operations with Whole Numbers

Read each question. Then mark your answer on the sheet.

15. What is $17,319 - 892$?

- A 16,317
- B 16,427
- C 17,427
- D 18,211

16. What is $23,519 + 8,615$?

- A 14,904
- B 31,132
- C 32,124
- D 32,134

17. A baker made 1,296 rolls on Monday. He put 6 rolls in each package. How many packages of rolls did the baker make on Monday?

- A 21 packages
- B 206 packages
- C 212 packages
- D 216 packages

18. Use an exponent to write $3 \times 3 \times 3 \times 3 \times 3$.

- A 3^3
- B 3^4
- C 3^5
- D 5^3

19. Which number is prime?

- A 22
- B 39
- C 71
- D 111

20. Which is the prime factorization of 78?

- A $2 \times 3 \times 13$
- B $2 \times 2 \times 3 \times 13$
- C $2 \times 2 \times 2 \times 13$
- D 2×39

21. What is the GCF of 12 and 18?

- A 2
- B 3
- C 6
- D 9

22. Judy buys balloons in packages of 6. She buys colored string for the balloons in packages of 4. What is the smallest number of packages of string she should purchase to be sure she has the same number of balloons and strings?

- A 24 packages
- B 20 packages
- C 12 packages
- D 3 packages

Name _____

Operations with Whole Numbers (continued)

Read each question. Then mark your answer on the sheet.

23. Which number is divisible by 2, 3, 6, and 9?

- A 21
- B 84
- C 198
- D 436

24. $\begin{array}{r} 340 \\ \times 10 \\ \hline \end{array}$

- A 340
- B 350
- C 3,400
- D 34,000

25. Alexa has 45 boxes of baseball cards. Each box has 225 baseball cards. How many cards does Alexa have in all?

- A 9,000 cards
- B 9,905 cards
- C 9,925 cards
- D 10,125 cards

26. $2,700 \div 30 =$

- A 9
- B 90
- C 900
- D 9,000

27. Mandy has 230 pictures. She wants to place an equal amount of pictures on 12 different posters. About how many pictures should be placed on each poster?

- A About 10 pictures
- B About 15 pictures
- C About 20 pictures
- D About 25 pictures

28. $32 \overline{)268}$

- A 8
- B 8 R9
- C 8 R12
- D 8 R16

29. $73 \overline{)61,324}$

- A 840 R4
- B 840 R40
- C 841 R14
- D 841 R40

Name _____

Fractions, Decimals, and Percents

Read each question. Then mark your answer on the sheet.

30. Find $5 \div 7$.

- A $1\frac{2}{5}$ C $\frac{7}{5}$
B $1\frac{2}{7}$ D $\frac{5}{7}$

31. What is the improper fraction $\frac{24}{5}$ written as a mixed number?

- A $4\frac{1}{5}$ C $4\frac{4}{5}$
B $4\frac{3}{5}$ D $5\frac{1}{5}$

32. Which statement is true?

- A $\frac{1}{2} > \frac{4}{6}$
B $\frac{2}{3} = \frac{3}{9}$
C $\frac{3}{6} > \frac{1}{2}$
D $\frac{3}{8} < \frac{5}{6}$

33. Which is $\frac{18}{40}$ in simplest form?

- A $\frac{9}{15}$ C $\frac{6}{13}$
B $\frac{9}{20}$ D $\frac{9}{10}$

34. Which is three and thirty-one millionths in decimal form?

- A 3.031
B 3.0031
C 3.00031
D 3.000031

35. Which is 23.862 rounded to the nearest tenth?

- A 20
B 23.8
C 23.86
D 23.9

36. Which is NOT correct?

- A $0.36 < 0.3$
B $0.6 = 0.60$
C $0.46 > 0.45$
D $3.291 > 3.219$

37. Which of the following is equal to $\frac{6}{10}$?

- A 0.06 C 0.66
B 0.6 D 6.0

38. Point P can be represented by which fraction and decimal?



- A $\frac{3}{8}$ and 0.375
B $\frac{4}{8}$ and 0.5
C $\frac{5}{8}$ and 0.75
D $\frac{6}{8}$ and 0.75

Fractions, Decimals, and Percents (continued)

Read each question. Then mark your answer on the sheet.

39. Fisher bought $\frac{2}{3}$ pound of cashews and $\frac{3}{4}$ pound of peanuts for the company picnic. How many pounds of nuts did Fisher buy?

- A $\frac{5}{7}$ pound
- B $1\frac{1}{3}$ pounds
- C $1\frac{1}{4}$ pounds
- D $1\frac{5}{12}$ pounds

40. Janet bought $\frac{7}{8}$ pound of grapes. She used $\frac{3}{4}$ pound in a fruit salad. How much did she have left?

- A $\frac{1}{8}$ pound
- B $\frac{1}{4}$ pound
- C $\frac{5}{6}$ pound
- D $1\frac{5}{8}$ pounds

41. What is $6\frac{1}{9} + 2\frac{2}{3}$?

- A $8\frac{1}{3}$
- B $8\frac{1}{2}$
- C $8\frac{7}{9}$
- D $8\frac{8}{9}$

42. Mrs. O'Neill bought $2\frac{1}{3}$ pounds of chicken. The recipe she is preparing calls for $1\frac{2}{3}$ pounds of chicken. How much chicken will Mrs. O'Neill have left?

- A $\frac{2}{3}$ pound
- B 1 pound
- C $1\frac{1}{3}$ pounds
- D $1\frac{2}{3}$ pounds

43. There are 32 bagels in a basket. One fourth of them are blueberry bagels. How many bagels are blueberry?

- A 4 bagels
- B 8 bagels
- C 12 bagels
- D 24 bagels

44. What is $\frac{4}{9} \times \frac{1}{3}$?

- A $\frac{2}{3}$
- B $\frac{2}{9}$
- C $\frac{5}{27}$
- D $\frac{4}{27}$

45. What is $1\frac{1}{2} \times 3\frac{1}{4}$?

- A $4\frac{7}{8}$
- B $4\frac{8}{9}$
- C $5\frac{1}{2}$
- D $5\frac{7}{8}$

Name _____

Fractions, Decimals, and Percents (continued)

Read each question. Then mark your answer on the sheet.

46. A bread recipe calls for 5 cups of flour. If you add flour to the dough $\frac{1}{4}$ cup at a time, how many times will you add flour to the dough?

- A $\frac{5}{4}$
- B 10
- C 15
- D 20

47. The odometer on a bike showed 38.4 miles at the end of the first day and 52.9 miles at the end of the second day. About how many miles was the bike ridden the second day?

- A About 90 miles
- B About 53 miles
- C About 15 miles
- D About 8 miles

48. Lenny's fence is 6.9 meters long. He adds a new section that is 2.19 meters long. What is the total length of the fence?

- A 4.71 meters
- B 9.09 meters
- C 9.19 meters
- D 9.99 meters

49. Kevin finished the race in 43.62 seconds. Melvin finished the race in 51.06 seconds. How much faster did Kevin run the race?

- A 7.24 seconds
- B 7.34 seconds
- C 7.44 seconds
- D 8.34 seconds

50. Each bottle holds 3.78 liters of grape juice. About how many liters of grape juice would Cher have if she bought 6 bottles?

- A About 16 liters
- B About 18 liters
- C About 20 liters
- D About 24 liters

51. What is 3.5×0.05 ?

- A 0.0175
- B 0.175
- C 1.75
- D 17.5

52. $24 \overline{)2.16}$

- A 0.9
- B 0.8
- C 0.18
- D 0.09

Name _____

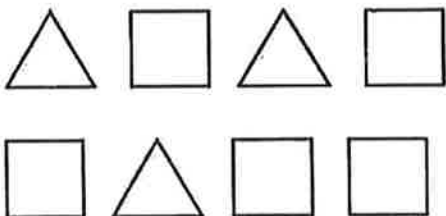
Fractions, Decimals, and Percents (continued)

Read each question. Then mark your answer on the sheet.

53. What is $0.343 \div 0.07$?

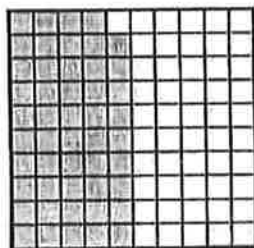
- A 0.049
- B 0.49
- C 4.9
- D 49

54. What is the ratio of triangles to squares?



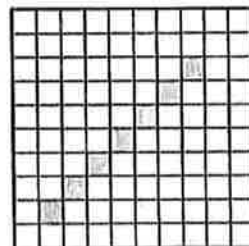
- A 3:5
- B 5:3
- C 3:8
- D 8:3

55. Which percent names the shaded part?



- A 40%
- B 47%
- C 49%
- D 51%

56. Which does not represent the shaded part?



- A 7%
- B 0.07
- C $\frac{7}{100}$
- D 0.7

57. A survey showed that $\frac{1}{4}$ of the people who saw the latest movie at the theater did not like it. What percent of the people liked the movie?

- A 10%
- B 25%
- C 75%
- D 80%

58. Which shows 12% as a fraction in simplest form?

- A $\frac{1}{2}$
- B $\frac{3}{25}$
- C $\frac{12}{100}$
- D $\frac{1}{12}$

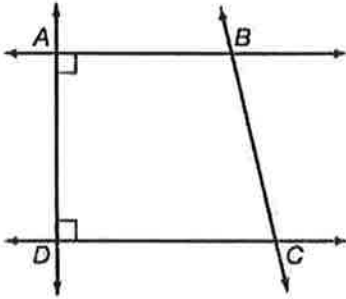
59. What is 30% of 200?

- A 20
- B 30
- C 40
- D 60

Measurement and Geometry

Read each question. Then mark your answer on the sheet.

Use the figure for Questions 60 and 61.



60. Which line is perpendicular to \overleftrightarrow{AB} ?

- A \overleftrightarrow{AB}
- B \overleftrightarrow{BC}
- C \overleftrightarrow{DC}
- D \overleftrightarrow{AD}

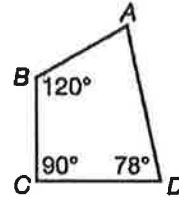
61. Which line appears to be parallel to \overleftrightarrow{AB} ?

- A \overleftrightarrow{BC}
- B \overleftrightarrow{AD}
- C \overleftrightarrow{DB}
- D \overleftrightarrow{DC}

62. Hillary built a triangular sandbox for her sister. Each side was 5 meters long. What type of triangle did she form?

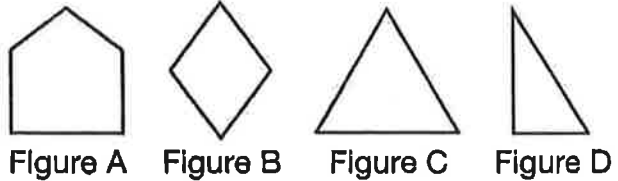
- A Equilateral
- B Isosceles
- C Scalene
- D Straight

63. What is the measure of angle A in the quadrilateral?



- A 62°
- B 72°
- C 82°
- D 102°

Use the figures for Questions 64 and 65.



64. Which figure has only one line of symmetry?

- A Figure A
- B Figure B
- C Figure C
- D Figure D

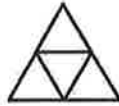
65. Which figure can be rotated 180° and fall back on itself?

- A Figure A
- B Figure B
- C Figure C
- D Figure D

Measurement and Geometry (continued)

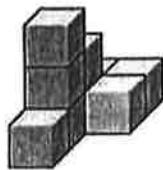
Read each question. Then mark your answer on the sheet.

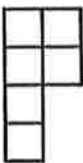
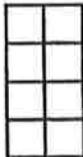

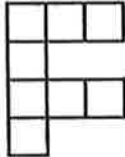
66. Which solid will the net form?



- A Cube
- B Rectangular prism
- C Square pyramid
- D Triangular pyramid

67. Which is the top view of the figure?



- A 
- B 
- C 
- D 

68. Which is the best estimate for the weight of a volleyball?

- A 1 ounce
- B 9 ounces
- C 9 pounds
- D 90 pounds

69. Fred has 24 quarts of milk. How many 1-gallon containers can he fill?

- A 6
- B 12
- C 48
- D 96

70. 7,500 m = _____ km

- A 7.5
- B 75
- C 750
- D 7,500

71. At 7:45 Friday evening Carrie decorates for her party. The party begins at 1:30 Saturday afternoon. How long does Carrie have to wait until her party begins?

- A 17 hours 45 minutes
- B 17 hours 15 minutes
- C 6 hours 15 minutes
- D 5 hours 45 minutes

72. The temperature at noon is 36°F. It was 9°F colder at 8:00 A.M. What was the temperature at 8:00 A.M.?

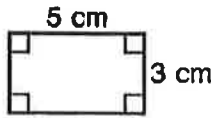
- A 45°F
- B 37°F
- C 33°F
- D 27°F

Name _____

Measurement and Geometry (continued)

Read each question. Then mark your answer on the sheet.

73. What is the perimeter of the figure?

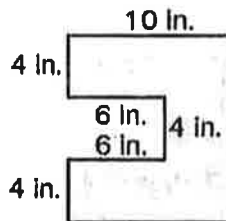


- A 8 cm
- B 14 cm
- C 16 cm
- D 18 cm

74. Jason's garden is a rectangle 7 meters wide and 8 meters long. He divides the garden by putting a string from one corner diagonally to the opposite corner. He plants corn on one side of the string. What is the area planted in corn?

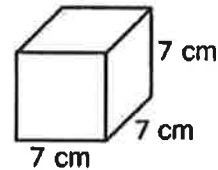
- A 14 square meters
- B 28 square meters
- C 42 square meters
- D 56 square meters

75. Which is the area of the figure shown?



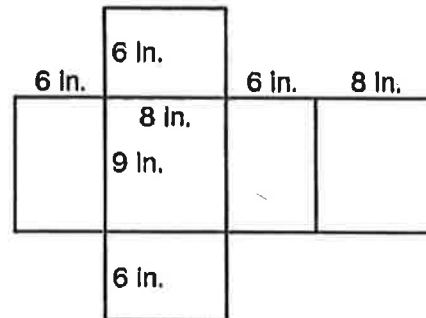
- A 96 square inches
- B 104 square inches
- C 112 square inches
- D 120 square inches

76. What is the volume of the figure?



- A 343 cm^3
- B 283 cm^3
- C 49 cm^3
- D 21 cm^3

77. Meredith needs to wrap a box with paper. The box measures 6 inches wide, 8 inches long, and 9 inches tall. What is the surface area of the box?



- A 300 in.^2
- B 348 in.^2
- C 432 in.^2
- D 864 in.^2

Data Analysis and Probability

Read each question. Then mark your answer on the sheet.

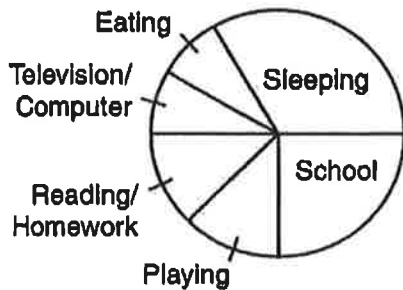
78. How many people reported they needed 35 minutes to solve the crossword puzzle?

Minutes Needed to Solve a Crossword Puzzle

Stem	Leaves
1	9
2	4 4 5 6 9 9
3	0 0 1 1 1 2 4 4 5 5 5 6 8 8 8
4	1 3 7 8
5	2 3

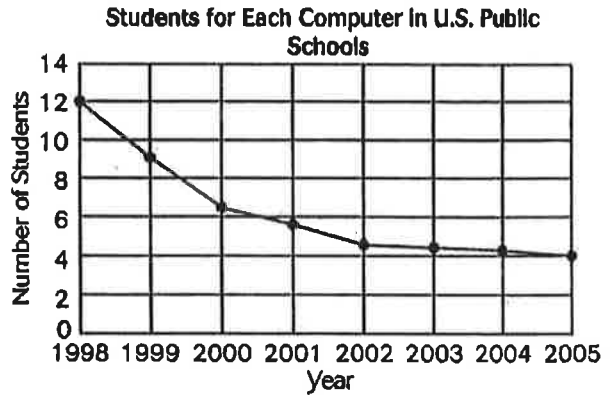
- A 3
- B 2
- C 1
- D 0

79. Which sector represents $\frac{1}{3}$ of the circle graph?



- A School
- B Sleeping
- C Play
- D Other

80. The line graph shows how the number of computers for each student in U.S. public schools changed over time.



What was the first year when there were less than 6 students for each computer?

- A 2003
- B 2002
- C 2001
- D 2000

81. The following represent the scores Janzen made on his math tests.

88 72 94 89 97

What is his mean score?

- A 84
- B 86
- C 88
- D 440

Data Analysis and Probability (continued)

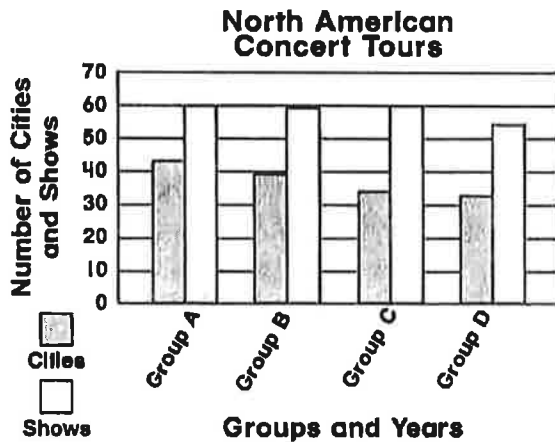
Read each question. Then mark your answer on the sheet.

82. Find the median for this set of data.

Boys' Weight (lb)						
98	103	65	89	92	97	89

- A 38 lb
- B 89 lb
- C 90.4 lb
- D 92 lb

83. Which group's tour showed the greatest difference between the number of cities visited and the number of shows played?



- A Group A
- B Group B
- C Group C
- D Group D

84. Bob has two pairs of shorts and 5 shirts. He wears one pair of shorts and one shirt to school. What is the total number of short and shirt combinations he can wear to school?

- A 12
- B 10
- C 7
- D 3

85. A bag contains 3 red apples, 7 green apples, and 2 yellow apples. What is the probability of getting a red apple if you reach in and take one without looking?

- A $\frac{1}{6}$
- B $\frac{1}{4}$
- C $\frac{1}{3}$
- D $\frac{7}{10}$

86. What is the probability that a T-shirt will be sold next?

Souvenir Shop	
Item	Number Sold
Postcard	7
Toy	10
T-shirt	8

- A $\frac{8}{25}$
- B $\frac{8}{17}$
- C $\frac{7}{25}$
- D $\frac{2}{25}$

Problem Solving

Read each question. Then mark your answer on the sheet.

87. How much more will it cost Heather to buy 24 tulips rather than 24 marigolds?

Dave's Garden Center	
Tulips	\$0.33 each
Daisies	\$0.75 each
Roses	\$9.00 each
Marigolds	\$0.25 each

- A \$7.92 C \$2.29
 B \$6.00 D \$1.92

88. In a group of children, there are 5 boys for every 6 girls. How many boys are there in the group if there are 48 girls?

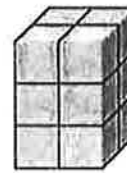
Boys	5	10						
Girls	6	12	18					

- A 30 boys
 B 40 boys
 C 50 boys
 D 60 boys

89. There are 24 servings in a box of 144 crackers. Which equation can be used to find how many crackers are in each serving?

- A $144 + 24 = n$
 B $144 - 24 = n$
 C $24 \times 144 = n$
 D $144 \div 24 = n$

90. Suppose the stack of cubes shown is painted so that the top and bottom of the stack are green and the other 4 faces of the stack are yellow. How many of the cubes have both green and yellow faces?



- A 12 cubes
 B 10 cubes
 C 8 cubes
 D 4 cubes

91. One large dish of lasagna calls for 24 ounces of cheese. Which of the following is the only reasonable number of large dishes of lasagna that can be made with 216 ounces of cheese?

- A 4 dishes
 B 9 dishes
 C 12 dishes
 D 20 dishes