Kansas City Area Teachers of Mathematics 2018 KCATM Contest

GEOMETRY AND MEASUREMENT TEST GRADE 4 #51-90

INSTRUCTIONS

- Do not open this booklet until instructed to do so.
- Time limit: 15 minutes
- You may use calculators on this test.
- Use **3.14** as the approximation for pi.
- Mark your answer on the answer sheet by FILLING in the circle.
- You may not use rulers, protractors, or other measurement devices on this test.

Mark your answers for this test from #51 - #90.

Student Name	Student Number

School ____

2018 KCATM GEOMETRY AND MEASUREMENT TEST

4TH GRADE

51.	How many lines of symmetry does this figure have?								
A.	2 B. 4	4 C. 6	D. 8	E. None of the a					
52.	Which statement is true ?								
A. C.	A square can have acute and obtuse angles.B. A rectangle can have acute and obtuse angles.A parallelogram can have acuteD. A rectangle can have acute and obtuse angles.								
E.	and obtuse None of the	e angles. e above	D.	A mombus must n	ave an fight angles.				
53. mar	Floor tiles	in schools mea ld be needed in	sure 1 ft. by a room that	1 ft. which is an are is 20 feet by 30 fee	a of 1 square foot. How t?				
Α.	50	B. 60	C. 300	D. 600	E. None of the above				
					•				
54.	How many and all equ	lines of symme ual angles?	etry are in this	s figure with all equa	al sides				
Α.	2 B. 4	4 C. 6	D. 8	E. None of the a	bove				
55. You are watering your plants and have 3 gallons of water. You want to pour the 3 gallons into smaller pint containers so the water is easier to carry to your garden. How many pints will you have?									
A.	24	B. 16	C. 12	D. 3	E. None of the above				
56.	 A8 ft. Find the perimeter of the following rectangle: 13 ft. 								
A.	120 ft.	B. 121 ft.	C. 122 ft.	D. 123 ft.	E. None of the above				
57. What is the greatest number of obtuse angles in quadrilateral?									
A.	0	B. 1	C. 2	D. 3	E. None of the above				
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2018 KCATM GEOMETRY AND MEASUREMENT TEST 4TH GRADE

58.	Which figures have 2 pair of parallel sides?								
A.	Square	are B. Parallelogram		re B. Parallelogram C. Rect		C. Rectangle	D. Rho	mbus	E. All of them
59.	What is	the most re	asonable m	neasure of the fol	lowing ar	ngle?			
A.	1°	B. 20º	C. 57°	D. 80°	E. No	one of th	ne above		
60. A straight angle has a measure of 180°. If the following diagram is given, what is the measure of the obtuse angle?									

A. 83° B. 78° C. 100° D. 97° E. None of the above

61. It is 7:10 pm in the summer and you are at your friend's house playing chess. You must be home in 15 minutes, which of the following clocks gives you the correct time you need to be home?



E. None of the above

62. You are making placemats for your cafeteria for a special occasion. You want to put lace around the construction paper below that measures 10 in. by 10 in. If you are going to make 100 of them, how many inches of lace will you need for your project?



A. 220 in. B. 2,200 in. C. 4,400 in. D. 4,800 in. E. None of the above



65. Which statement best describes the figure below?



- A. The figure is a cylinder with a height shorter than the diameter of the figure.
- B. The figure is a cylinder with a height greater than the diameter of the figure.
- C. The figure is a circle with a height shorter than the diameter of the figure.
- D. The figure is a circle with a height shorter than the diameter of the figure.
- E. None of the above



A. Pentagon B. Hexagon C. Heptagon D. Octagon E.None of the above



69. The following two angles form a right angle. What is the value of "x"?

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73. Find the total area of the shaded squares if each side of the squares is 3 inches. The area of a rectangle formula is: Area = length x width

A. 16 in² B. 48 in² C. 96 in² D. 144 in² E. None of the above

74. In a case of soda, there are 24 cans. If each can has 12 ounces, and there are 8 ounces in a cup. How many cups of soda are in a case?

A. 36 cups B. 44 cups C. 48 cups D. 60 cups E. None of the above

- 75. Identify all of the geometric figures in the tangram puzzle solution:
- A. Square, Parallelogram B. Triangles, Square
- C. Parallelogram, Triangles D. Parallelogram, Triangles, Square
- E. None of the above
- 76. What is the geometric shape below?



A. Ray B. Line C. Segment D. Angle E. None of the above





79. Which geometric property is **NOT** shown in the letter W?



- A. Slide
- B. Rotation
- C. Line of Symmetry

Super Teacher Worksh

- D. Flip
- E. None of the above
- 80. How many centimeters are in a meter?
- A. 10 B. 100 C. 1000 D. 1 E. None of the above
- 81. A quart is ¼ of a gallon. There are 4 cups in a quart. How many cups would be in a gallon?
- A. 8 B. 12 C. 16 D. 24 E. None of the above

Use the diagram for problems #82-86.



82. What is the perimeter of the square?

Α.	9 units	B. 4 units	C. 8 units	D. 12 units	E. None of the above			
83.	What is the area of rectangle in Figure 3?							
A.	36 units ²	B. 12 units ²	C. 18 units ²	D. 81 units ²	E. None of the above			
84.	Which figure is the right triangle?							
Α.	Fig 1	B. Fig 2	C. Fig 5	D. Fig 6	E. None of the above			
85.	5. Name all figures with at least one obtuse angle.							
A.	1,3,5	B. 1,4,6,8	C. 1,3,7	D. 2,4,6,8	E. None of the above			
86.	5. What is the height of the triangle in Figure 5?							
A.	4	B. 5	C. 6	D. 7	E. None of the above			

87. How many vertices are there in a rectangular prism (box)?



88. How many cubes does this rectangular solid have?



- 89. A mile has 5,280 feet. How many yards would that be?
- A. 1760 B. 440 C. 2540 D. 528 E. None of the above
- 90. A baby may weigh 7 pounds 9 ounces at birth. How many ounces would that be?
 - A. 121 oz. B. 65 oz. C. 79 oz. D. 63 oz. E. None of the above