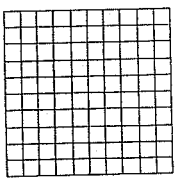
Southeast Bulloch High School 5th and 6th Grade Mathematics Tournament
April 14, 2007

5th Grade Test Name _____

1. Admission to a basketball tournament is $7 per person. If 179 people pay to attend the tournament, how much money will be collected for admission?

(a) $956 (b) $1,193 (c) $1,253 (d) $793

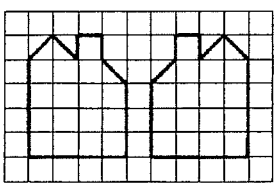
2. Which of the following represents the shaded model?



(a) $\frac{75}{10}$ (b) $\frac{25}{75}$ (c) $\frac{75}{100}$ (d) $\frac{25}{10}$

3. All of the following are divisible by 3 ***except***
(a) 27 (b) 57 (c) 77 (d) 87

4. Which single transformation is represented by the two figures?



(a) rotation (b) reflection (c) translation (d) not here

5. Which of the following shapes must have all four sides congruent?

(a) quadrilateral (b) rectangle (c) trapezoid (d) square

6. $\frac{1}{2}\% =$

(a) 0.5 (b) 0.05 (c) 0.005 (d) 0.0005

7. The next number in the sequence is 1, 3, 7, 13, 21, … is

(a) 37 (b) 35 (c) 33 (d) 31

8. The table below shows the ages of 4 people.

Name	Tara	Wes	Kim	Larry
Age (years)	52	57	59	91

Which child's age is a prime number?

(a) Tara (b) Wes (c) Kim (d) Larry

9. Find the missing number to make the two ratios equivalent 24: 36 and ? : 15
(a) 9 (b) 10 (c) 14 (d) 16

10. Jessica wants to build a fence around her triangle-shaped garden. The sides of the garden measure 3 yards, 4 yards 5 feet, and 10 feet. What is the perimeter of Jessica's garden in feet?

(a) 22 feet (b) 36 feet (c) 66 feet (d) 56 feet

11. Which statement about a cube is true?
(a) it has exactly 4 vertices
(b) it has exactly 8 edges
(c) it has exactly 6 faces
(d) it has exactly 6 edges

12. London Heathrow International Airport in Great Britain is one of the busiest airports in the world. About forty million international passengers travel through this airport each year. How is forty million written in numerals?

(a) 400,000,000 (b) 40,000 (c) 40,000,000,000 (d) 40,000,000

13. A total of 325 students attended the football game. If 25 more boys attended than girls, how many girls were at the game?
(a) 175 (b) 200 (c) 300 (d) 150

14. In the number 300,300, how many times greater is the value of the left-most "3" than the value of the right-most "3"?
(a) 300 (b) 1000 (c) 3000 (d) 100,000

15. At the rate of 40 cents for the first 10 words and 3 cents for each additional word, the cost of a 15-word telegram is
(a) 45 cents (b) 55 cents (c) 85 cents (d) $4.45

16. $1\frac{3}{5} \times 6\frac{1}{4} =$

(a) $6\frac{3}{20}$ (b) $7\frac{3}{20}$ (c) $7\frac{17}{20}$ (d) 10

17. A half of one hundredth is:

(a) 0.005 (b) 50 (c) 0.5 (d) 0.05

18. Mr. Norwell makes sandwiches for a restaurant. The table below shows the number of pickles he uses for different numbers of sandwiches.

Number of pickles	Number of sandwiches
16	4
28	7
48	12

Based on the information in the table, how could the number of pickles used for each sandwich be determined?

(a) add 12 to the number of sandwiches made
(b) subtract 21 from the number of pickles used
(c) divide the number of pickles used by the number of sandwiches made
(d) multiply the number of sandwiches made by the number of pickles used

19. Quentin is 65 inches tall. Rob is 3 inches taller than Quentin. Sam is 2 inches taller than Rob. Pete is 6 inches shorter than Sam. How tall is Pete?

(a) 70 in (b) 76 in (c) 59 in (d) 64 in

20. Jack needs 35 slices of pizza for the party. Each pizza is cut into 8 slices. <u>At least</u> how many pizzas does Jack need for the party?

(a) 3 (b) 4 (c) 5 (d) 6

21. David has 12 red, 24 blue, and 34 yellow M&M's in a box. Without looking, what is the probability he will pull a <u>blue</u> M & M from the box?

(a) $\frac{24}{12}$ (b) $\frac{24}{36}$ (c) $\frac{24}{60}$ (d) $\frac{24}{70}$

22. A restaurant has a choice of 4 different kinds of salad and 5 different kinds of dressing. From how many different combinations of 1 type of salad and 1 type of dressing can a customer choose?

(a) 9 (b) 10 (c) 20 (d) 25

23. To paint all sides of a cube (Figure 1) that was built out of little cubes 9 pounds of paint was used. How many pounds of paint are needed to paint the white region of the solid shown in Figure 2?

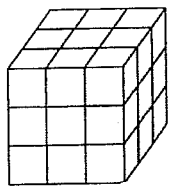


Figure 1

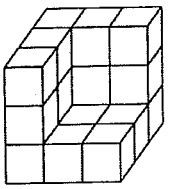


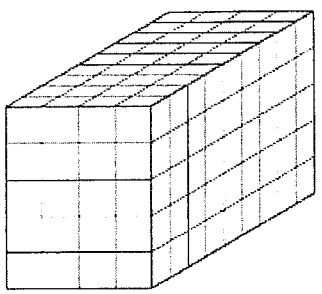
Figure 2

(a) 2 (b) 3 (c) 4 (d) 6

24. The elevator in an apartment building cannot carry a load that weighs more than 1 ton. Which of the following loads weigh more than 1 ton?

(a) three 210 pound men and one 150 pound woman
(b) four 125 pound men and one 150 pound man
(c) three 500 pound pieces of exercise equipment, two 200 pound men and one 150 pound women
(d) two 700 pound pianos and two 250 pound men

25. What is the volume of the rectangular prism below?



(a) 180 cubic units (b) 45 cubic units (c) 18 cubic units (d) 101 cubic units

26. The width of a rectangular rug is 10 feet. If the perimeter is 50 feet, what is the area of the rug?

(a) 150 sq. ft. (b) 120 sq. ft. (c) 100 sq. ft. (d) 80 sq. ft.

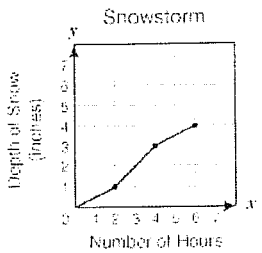
27. $2.25 \times 0.80 =$

(a) $1\frac{1}{2}$ (b) $1\frac{3}{4}$ (c) $1\frac{4}{5}$ (d) 2

28. $18.2 - 12.316$

(a) 6.884 (b) 30.516 (c) 6.116 (d) 5.884

29. The graph below represents the depth of snow in Mountain View during a snowstorm.



Which table matches the data in the graph?

(a)

Number of hours	1	3	4
Depth of snow (inches)	2	4	6

(b)

Number of hours	2	4	6
Depth of snow (inches)	2	3	4

(c)

Number of hours	2	4	6
Depth of snow (inches)	1	2	4

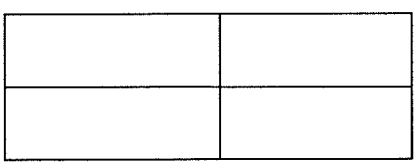
(d)

Number of hours	2	4	6
Depth of snow (inches)	1	3	4

30. There are places for 4 people at a square table, one on each side. Students put together 10 such tables, one after another, in one row so they got one rectangular table. How many places are there at the rectangular table now?

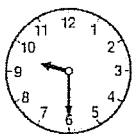
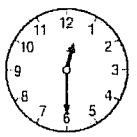
(a) 40 (b) 32 (c) 22 (d) 20

31. How many different rectangles does this diagram contain?



(a) 4 (b) 5 (c) 9 (d) 10

32. A chili cook-off started at 9:30 am. All the chili had finished cooking 3 hours and 40 minutes later. Which clock shows the time at which all the chili had finished cooking?

(a)  (b)  (c)  (d) 

33. Which is the prime factorization of 100?

(a) $2 \times 2 \times 5 \times 5$ (b) $2 \times 5 \times 10$ (c) $2 \times 2 \times 25$ (d) 4×5 X 5

34. Abel ran in a 1 kilometer race. When he was halfway to the finish line, how many meters did he have left to run?

(a) 50 m (b) 100 m (c) 1000 m (d) 500 m

35. Write the fraction as a percent: $\frac{4}{25}$

(a) 0.16 % (b) 1.6 % (c) 4 % (d) 16%

36. How many ounces does a quarter pound hamburger patty weigh?

(a) 4 oz (b) 8 oz (c) 12 oz (d) 16 oz

37. Twenty telephone poles are placed in a straight line. The distance between any two consecutive poles is 4 meters. What is the distance between the 1^{st} and 10^{th} poles?

(a) 36 m (b) 40 m (c) 44 m (d) 80 m

38. A car is driven at the rate of 30 miles per hour. The distance the car covers in one minute is

(a) 15 miles (b) 2 miles (c) ½ mile (d) 4 miles

39. $3 \times 3 \times 3 \times 2 \times 2 =$

(a) $3^2 \times 2^3$ (b) 9×4 (c) $6^2 \times 3$ (d) 27×8

40. There is an advertisement in a sport store:

 = \$90.00  = \$240.00

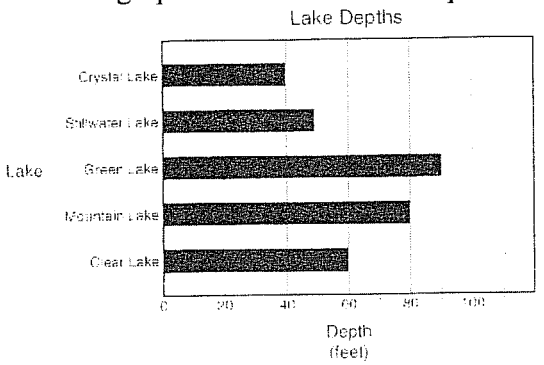
How much is a soccer ball?

(a) \$130 (b) \$60 (c) \$40 (d) \$30

41. There are 20 books on a shelf. If 12 books are removed, what percent of the number of original books is removed?

(a) 8% (b) 12% (c) 40% (d) 60%

42. The graph below shows the depths of the 5 lakes.



What is the median depth of these 5 lakes?

(a) 50 feet (b) 60 feet (c) 80 feet (d) 90 feet

43. Lenny bought as many crickets as possible with $4.20 to feed his lizard. Crickets cost 10 cents each or $1.00 per dozen. How many crickets did Lenny Buy?

(a) 50 (b) 49 (c) 42 (d) 46

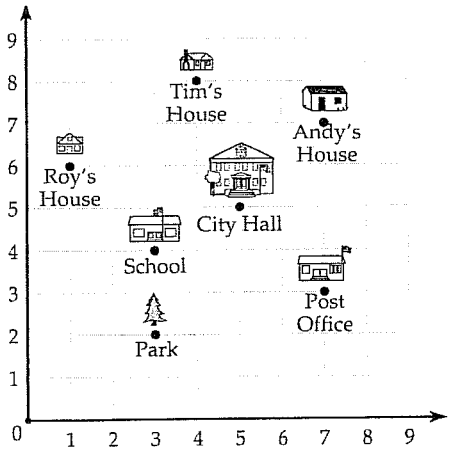
44. Katrina planted flowers in her yard. The table below shows the height of 1 flower during a 2-week period.

Date	April 1	April 8	April 15
Height (cm)	38.5	54.9	58.8

Which of the following represents the height in centimeters of Katrina's flower on April 15?

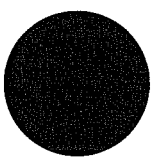
(a) Fifty-eight and eight hundredths
(b) Fifty-eight and eight tenths
(c) Five hundred eighty-eight
(d) Five hundred and eight tenths

45. What are the coordinates of the building **closest** to the city hall?



(a) (7,6) (b) (3,4) (c) (4,8) (d) (7,7)

46. The circle below has a radius of 5 inches. To the nearest tenth what is the area of the circle? (Use $\pi = 3.14$)



(a) 15.7 sq in (b) 31.4 sq in (c) 78.5 sq in (d) 100.5 sq in

47. If I start with \$100, increase this by 50%, then decrease the new amount by 50%, how much money will I have?

(a) \$50 (b) \$66 (c) \$75 (d) \$100

48. $\frac{1}{2} + \frac{2}{4} + \frac{3}{6} + \frac{4}{8} =$

(a) 2 (b) $1\frac{7}{8}$ (c) $\frac{1}{2}$ (d) $2\frac{1}{8}$

49. An adult takes about 180 breaths in 15 minutes. A baby takes about 300 breaths in 15 minutes. How many more breaths does a baby take in one hour than an adult?

(a) 32 (b) 480 (c) 1800 (d) 108000

50. $4 + 3 \times 6 - 10 \div 2$

(a) 16 (b) 6 (c) 17 (d) 24

ANSWERS:

1. C
2. C
3. C
4. B
5. D
6. C
7. D
8. C
9. B
10. B
11. C
12. D
13. A
14. B
15. B
16. D
17. A
18. C
19. D
20. C
21. D
22. C
23. A
24. C
25. A
26. A
27. C
28. D
29. D
30. C
31. C
32. D
33. A
34. D
35. D
36. A
37. A
38. C
39. C
40. B
41. D
42. B
43. A
44. B
45. B
46. C
47. C
48. A
49. B
50. C