

Burger King and Southeast Bulloch High School 5th and 6th Grade Math Tournament 1997

1. Convert $\frac{3}{8}$ to a decimal
 - A. 3.8
 - B. 8.3
 - C. .375
 - D. .333...
2. $4\frac{1}{7} + \frac{2}{5} =$
 - A. $4\frac{3}{12}$
 - B. $4\frac{19}{35}$
 - C. $4\frac{3}{7}$
 - D. $\frac{19}{35}$
3. $.07 \times .70 =$
 - A. .49
 - B. .0049
 - C. .049
 - D. 4.9
4. Round 147.9987 to the nearest hundredths
 - A. 200
 - B. 158.00
 - C. 147.90
 - D. 148.00
5. Round 4692.6834 to the nearest thousands
 - A. 4000
 - B. 5000
 - C. 4692.683
 - D. 4692.684

6. 3 hours
 $- 1 \text{ hour } 24 \text{ minutes}$

- A. 2 hours 24 minutes
- B. 2 hours 36 minutes
- C. 1 hour 24 minutes
- D. 1 hour 36 minutes

7. Evaluate the following expression: $2y + 3c + 9$ if $y = 7$ and $c = 2$.

- A. 29
- B. 68
- C. 34
- D. 42

8. Solve the following equation: $4x - 7 = 21$

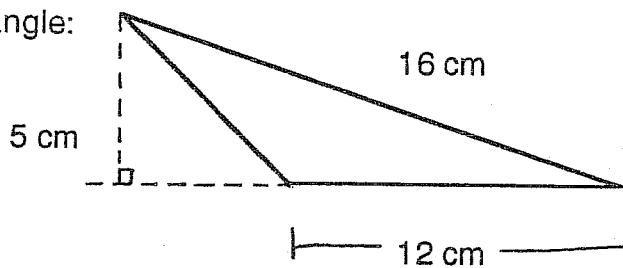
- A. 3.5
- B. 7
- C. 12.25
- D. none of the above

9. Convert $6 \frac{1}{5}$ to a decimal

- A. 6.15
- B. 61.5
- C. 6.2
- D. 31.5

10. Find the area of the following triangle:

- A. 40 cm^2
- B. 33 cm
- C. 30 cm
- D. 30 cm^2



11. $7 \times (-12) =$

- A. 84
- B. -84
- C. 5
- D. -5

12. $-14 + 6 =$

- A. -8
- B. 8
- C. -84
- D. 84

13. Convert 25.6% to a decimal

- A. 25.6
- B. 2.56
- C. .256
- D. 2560

14. What number is 26% of 320?

- A. 1231
- B. 8320
- C. 832
- D. 83.2

15. Convert $6 \frac{2}{5}$ to a percent

- A. 640%
- B. 625%
- C. 62.5%
- D. 64%

16. $7 + 4 \times 2 - 3 =$

- A. 19
- B. 10
- C. 6
- D. 12

17. $469,891 - 293,829 =$

- A. 17,662
- B. 176,062
- C. 236,078
- D. 276,062

18. There are 2 marbles in a yellow box. There are 8 marbles altogether in the red and white boxes. There 10 marbles altogether in the red and blue boxes. There are 9 marbles altogether in the yellow and blue boxes. How many marbles are in the white box?

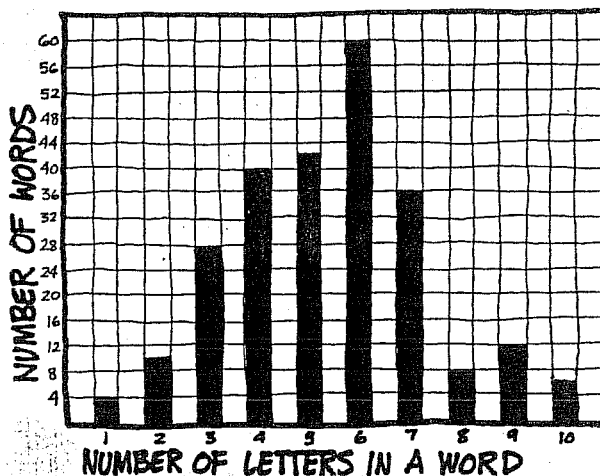
- A. 3
- B. 5
- C. 17
- D. 7

19. Neil Armstrong was born in 1931. In 1969, he became the first man to walk on the moon. How old was Armstrong when he made the first moon walk?

- A. 37
- B. 30
- C. 100
- D. 38

20. Cathy made a bar graph of the lengths of the words on one page in her science book. How many more words had six letters than nine letters? Use the bar graph below.

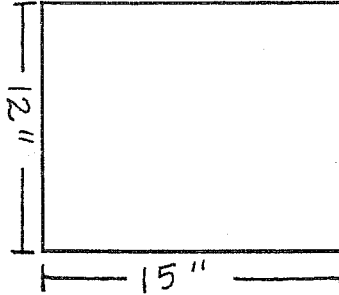
- A. 48
- B. 72
- C. 58
- D. 60



21. The price of one hot-dog was \$.45. I bought two hot-dogs. The sales tax was \$.07. How much did I pay in all?

- A. \$.96
- B. \$.97
- C. \$.52
- D. \$.48

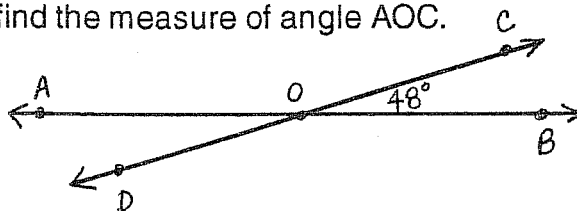
22. How many 3" by 5" cards do you need to cover this rectangle



- A. 15
B. 3
C. 12
D. 5
23. I had a dozen eggs. I used half the eggs to make a cake. I used 2 eggs to make French toast. How many eggs do I have left?
- A. 10
B. 1
C. 7
D. 4
24. How many quarter pound hamburgers can you make from two and a half pounds of ground beef?
- A. 10
B. 5
C. 16
D. 2
25. What fraction of the numbers between 1 and 20 are prime numbers?
- A. $\frac{9}{20}$
B. $\frac{2}{5}$
C. $\frac{9}{19}$
D. $\frac{4}{9}$
26. Rita had 3 pounds of peanuts. She put $\frac{1}{2}$ pound of peanuts in each bag. How many bags did she use?
- A. 3
B. 6
C. 9
D. 1.5

27. I built a fence in the shape of a square. There are eight fence posts on each side. How many posts did I use altogether?
- A. 32
B. 29
C. 28
D. 36
28. I have read $\frac{3}{5}$ of my 400 page book. How many pages do I have left to read?
- A. 260 pages
B. 160 pages
C. 640 pages
D. 240 pages
29. My watch loses 12 seconds each day. How much time would it lose in a 30 day month?
- A. 360 minutes
B. 60 minutes
C. 3600 minutes
D. 6 minutes
30. I had 30 baseball cards. I gave 5 cards to my brother Fred. I gave some cards to my friend Sarah. Now I have 15 cards left. How many cards did I give to Sarah?
- A. 10
B. 25
C. 15
D. 5
31. If 3 apples cost \$.60, how much would 9 apples cost?
- A. \$180
B. \$.54
C. \$1.80
D. \$54

32. In the straight-line drawing, find the measure of angle AOC.



- A. 48°
B. 132°
C. 142°
D. 312°

33. What is the next number in the following sequence:
2, -8, 32, -128, _____
- A. -512
 - B. 1024
 - C. 512
 - D. -1024
34. Find the area of a semicircle with radius 6 cm. Use Circle Area = πr^2 . Use $\pi = 3.14$. Round to tenth place value.
- A. 56.5 cm²
 - B. 354.9 cm²
 - C. 117.5 cm
 - D. 113.0 cm
35. What is the probability that a sum of seven will occur when a game cube is rolled twice.
- A. 0
 - B. 1/6
 - C. 1
 - D. 2/9
36. Find the volume of a rectangular prism with length 5 inches, width 2 inches, and height 7 inches.
- A. 70 inches²
 - B. 70 inches³
 - C. 4900 inches²
 - D. 4900 inches³
37. What is the greatest common factor of the following: 6, 12, 20
- A. 60
 - B. 2
 - C. 12
 - D. 6

38. What is the median of the following set of data:

5, 7, 3, 3, 4, 3, 9, 8, 9, 9, 6

- A. 3
- B. 4
- C. 5
- D. 6

39. What is the mean of the following set of data:

5, 7, 3, 3, 4, 3, 9, 8, 9, 9, 6

- A. 3
- B. 4
- C. 5
- D. 6

40. The present time is 1 P.M. What time will it be 3600 seconds from now?

- A. 1 A.M.
- B. 2 P.M.
- C. 3 P.M.
- D. 4 P.M.

**Burger King and Southeast Bulloch
1997 Math Team 5th and 6th Grade Math Tournament
Individual Answers**

- | | | | |
|-----|---|-----|---|
| 1. | C | 21. | B |
| 2. | B | 22. | C |
| 3. | C | 23. | D |
| 4. | D | 24. | A |
| 5. | B | 25. | D |
| 6. | D | 26. | B |
| 7. | A | 27. | C |
| 8. | B | 28. | B |
| 9. | C | 29. | D |
| 10. | D | 30. | A |
| 11. | B | 31. | C |
| 12. | A | 32. | B |
| 13. | C | 33. | C |
| 14. | D | 34. | A |
| 15. | A | 35. | B |
| 16. | D | 36. | B |
| 17. | B | 37. | B |
| 18. | B | 38. | D |
| 19. | D | 39. | D |
| 20. | A | 40. | B |

CIPHERING ANSWERS

- | | | | |
|----|-------------------|-----|-------------------------|
| 1. | 9 | 9. | 39 |
| 2. | \$2 | 10. | \$17 |
| 3. | 3 | 11. | 60 |
| 4. | 205 | 12. | 165 |
| 5. | \$18 | 13. | \$3.65 |
| 6. | 50 | 14. | 245, 248, 274, 275, 283 |
| 7. | \$1150 | 15. | 10 boxes |
| 8. | Quarter, heads up | 16. | 4 |