

SEB MATH TEAM TOURNAMENT 1996

1. $3\frac{3}{5} - 7/10 =$

- A. $3\frac{4}{5}$
- B. $5\frac{9}{10}$
- C. $2\frac{9}{10}$
- D. $4\frac{3}{10}$

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

- A. $6\frac{2}{14}$
- B. $6\frac{7}{24}$
- C. $12\frac{1}{24}$
- D. $9\frac{11}{24}$

3. $2\frac{1}{5} + 4/5 =$

- A. $1\frac{19}{25}$
- B. $2\frac{4}{5}$
- C. $2\frac{1}{4}$
- D. $2\frac{3}{4}$

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

- A. $5\frac{3}{15}$
- B. $9/80$
- C. $5\frac{14}{15}$
- D. $3\frac{1}{5}$

5. 42% of 472 is _____

- A. 198.24
- B. 19824
- C. 1982400
- D. 1.9824

6. $\frac{7}{4}$ as a percent is _____

- A. 1.75%
- B. 175%
- C. .57%
- D. 57%

7. The decimal for 47.6% is _____

- A. .476
- B. 47.6
- C. 47600
- D. 4.76

8. $1.9 \times 5.3 =$

- A. 1007
- B. 987
- C. 10.07
- D. 9.87

9. $-7.2 \times (-3) =$

- A. -21.6
- B. -10.2
- C. 10.2
- D. 21.6

10. $-6 - (-8) =$

- A. 2
- B. -2
- C. 14
- D. -14

11. $14 + (-16) =$

- A. -2
- B. 2
- C. -30
- D. 30

12. $12 + 20 \div 4 - 5 =$

- A. -32
- B. 12
- C. 3
- D. -12

13. $36,481 - 28,798 =$

- A. 12,317
- B. 17,683
- C. 7,723
- D. 7,683

14. If it is 11:23 AM now, what time will be in 9 hours and 59 minutes?

- A. 9:22 Am
- B. 6:00 AM
- C. 9:22 PM
- D. 6:00 PM

15. If the diameter of a circle is 12 inches, what is the area of the circle?

- A. $36\pi \text{ in}^2$
- B. $12\pi \text{ in}^2$
- C. $12\pi \text{ in}^3$
- D. $36\pi \text{ in}^3$

16.
$$\begin{array}{r} 10 \text{ feet } 1 \text{ inch} \\ -5 \text{ feet } 10 \text{ inches} \\ \hline \end{array}$$

- A. 4 ft. 3 in.
- B. 5 ft. 9 in.
- C. 5 ft. 11 in.
- D. 4 ft. 23 in.

17. If the product of a number and six is increased by 3, the result is 33. What is the number?

- A. 5
- B. 6
- C. 180
- D. 216

18. What is the divisor when 12090 is divided by 26?
- A. 26
 - B. 0
 - C. 465
 - D. 12090
19. If $a = 4$, $b = 2$, and $c = 3$, what is $ab - bc$?
- A. 19
 - B. 2
 - C. 1
 - D. none of the above
20. In how many ways can dimes and quarters be assembled to make \$1.85?
- A. 1
 - B. 2
 - C. 3
 - D. 4
21. Jim has 4 more brothers than sisters. How many more brothers than sisters does his sister Mary have?
- A. 5
 - B. 6
 - C. 4
 - D. 3
22. Solve $\frac{x}{4} + 8 = 12$
- A. 16
 - B. 0
 - C. 1
 - D. 6
23. If an 8-inch pizza will feed 4 teenagers, how many teenagers will three 10-inch pizzas feed?
- A. 18
 - B. 16
 - C. 6
 - D. 5

24. The next number in the series 7, 4, 1, -2, ... is
- A. -5
 - B. 5
 - C. -1
 - D. 7
25. Two angles in a triangle measure 43° and 54° . What is the measure of the third angle?
- A. 90°
 - B. 83°
 - C. 54°
 - D. 43°
26. What is the least common multiple of 33 and 121?
- A. 33
 - B. 3993
 - C. 121
 - D. 363
27. What is the median of 4, 9, 6, 1, 4, 3, 8, 3, 4, 5.
- A. 4
 - B. 3.5
 - C. 4.7
 - D. 8
28. Choose the statement that correctly translates the following:
"twice the distance that Pat ran"
- A. $2x$
 - B. $2 + x$
 - C. $2 - x$
 - D. $x - 2$
29. If bananas cost \$.39 per pound and apples cost 1 for \$.45, which of the following costs the most?
- A. 4 pounds of bananas and 4 apples
 - B. 4 pounds of bananas and 2 apples
 - C. 3 pounds of bananas and 1/2 dozen apples
 - D. 1 pound of bananas and 5 apples

30. Five spoons and two glasses weigh as much as 3 plates. One plate weighs as much as 1 spoon and 1 glass. How many spoons weigh as much as one glass?

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

31. Eight women form a tennis club and arrange for each person to play each other exactly once. How many tennis matches must be arranged?

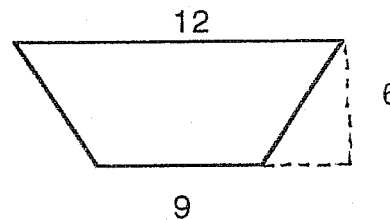
- A. 56
- B. 42
- C. 28
- D. 16

32. The ratio of idle onlookers to serious spectators in the crowd was 2 to 29. If there were 8410 spectators, how many idle onlookers were there?

- A. 4205
- B. 290
- C. 580
- D. 121945

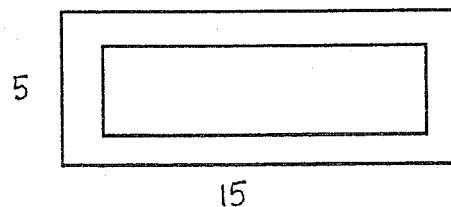
33. Find the area of the trapezoid:

- A. 87
- B. 324
- C. 36
- D. 63



34. Find the area of the outer rectangle:

- A. 40
- B. 75
- C. 30
- D. 5625



35. Round 5296.789695 to the nearest hundred thousandth:

- A. 5000
- B. 5296.789695
- C. 5296.78979
- D. 5296.78970

36. Which of the following is equivalent to 8 Km?

- A. 800 m
- B. 8000 m
- C. 80 m
- D. 8000 cm

37. One-fourth of the avocados in the crate were spoiled. If 360 avocados were in the crate, how many were spoiled?

- A. 1440
- B. 9
- C. 90
- D. 900

38. What percent of 185 is 138.75?

- A. .75%
- B. 75%
- C. 1.3%
- D. 133%

39. The volume of a basketball is most likely,

- A. 3500 dm²
- B. 3500 dm³
- C. 3500 cm²
- D. 3500 cm³

40. $2 \frac{1}{4} + 3 \frac{2}{3} + 4 \frac{3}{4} + 1 \frac{1}{3} =$

- A. 8
- B. $11 \frac{2}{3}$
- C. $7 \frac{3}{4}$
- D. 12

SEB 5th and 6th Grade Math Tournament
March 30, 1996
Individual Test Answers

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

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