

SEB MATH TEAM TOURNAMENT 1995

1. $5\frac{2}{5} - \frac{2}{3} =$

- A. $5\frac{2}{3}$
- B. $4\frac{1}{2}$
- C. $5\frac{11}{15}$
- D. $4\frac{11}{15}$

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

- A. $\frac{17}{20}$
- B. $\frac{4}{20}$
- C. $\frac{20}{17}$
- D. $\frac{4}{9}$

3. $2\frac{1}{2} \times 1\frac{3}{4} =$

- A. $2\frac{3}{8}$
- B. $4\frac{3}{8}$
- C. 3
- D. $2\frac{1}{4}$

4. $3\frac{2}{3} \div 1\frac{1}{2} =$

- A. $\frac{3}{2}$
- B. $3\frac{1}{2}$
- C. $2\frac{4}{9}$
- D. $5\frac{1}{2}$

5. 20% of 75 is

- A. 1500
- B. 15
- C. 1.5
- D. 20.75

6. $\frac{5}{25}$ as a percent is

- A. 2%
- B. 20%
- C. 25%
- D. 5%

7. The decimal for 5.8% is

- A. .0580
- B. 580
- C. 58
- D. 5.8

8. $.65 \times .25 =$

- A. 16.25
- B. .1525
- C. .1625
- D. 15.25

9. $-6 \times (-12) =$

- A. -72
- B. -18
- C. 72
- D. 18

10. $-5 - (-5) =$

- A. 10
- B. -10
- C. 1
- D. 0

11. $8 + (-17) =$

- A. 11
- B. -25
- C. -9
- D. 25

12. $3 + 2 \times (7 - 5) =$

- A. 12
- B. 30
- C. 10
- D. 7

13. $98,632 - 46,496 =$

- A. 52,266
- B. 42,236
- C. 52,136
- D. 58,166

14. If it is 6:48 AM now, what time will it be in 11 hours and 46 minutes?

- A. 6:34 PM
- B. 5:00 PM
- C. 5:00 AM
- D. 6:34 AM

15. If the diameter of a circle is 8 cm, what is the circumference of the circle?

- A. 64π cm
- B. 64π cm²
- C. 8π cm
- D. 8π cm²

16.
$$\begin{array}{r} 9 \text{ hrs. } 6 \text{ min.} \\ - 3 \text{ hrs. } 41 \text{ min.} \\ \hline \end{array}$$

- A. 6 hrs. 35 min.
- B. 5 hrs. 25 min.
- C. 6 hrs. 25 min.
- D. 6 hrs. 45 min.

17. Sheri is 7 years older than Jay. Jay is twice as old as Tori. Tori is 1 year younger than Bob. If Bob is 7 years old, how old is Sheri?

- A. 19
- B. 12
- C. 7
- D. 6

18. What is the dividend when 2373 is divided by 15?

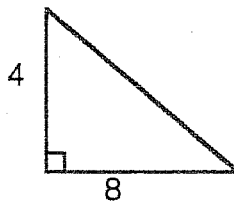
- A. 15
- B. 1
- C. 158
- D. 2373

19. If $x = 5$, what is $5x + 4x - 6 + 8$?
- A. 25
 - B. 37
 - C. 29
 - D. None of the above
20. Heather went shopping on Saturday. A dress regularly priced at \$65 was on sale for $\frac{1}{5}$ off. What was the new price?
- A. 13
 - B. 52
 - C. 60
 - D. 50
21. Gabriella has a bag of Skittles candy. There are 18 red, 16 purple, 25 yellow, 14 orange, and 12 green. What is the probability that she will pick a yellow out of the bag?
- A. $\frac{5}{17}$
 - B. $\frac{1}{25}$
 - C. $\frac{1}{15}$
 - D. $\frac{1}{85}$
22. Solve $4x - 3 = 13$
- A. 7
 - B. 6
 - C. 5
 - D. 4
23. If a department store is 2 stories high and each story is 12 feet high, how far would a ball fall if it is dropped from the top of the 2nd story and is caught by a person on a ladder half-way up the first story?
- A. 12 ft.
 - B. 6 ft.
 - C. 18 ft.
 - D. 24 ft.

24. The next number in the series 1, 6, 4, 10, 7, 14, 10, 18, ... is
- A. 13
 - B. 20
 - C. 26
 - D. 14
25. Two angles in a triangle measure 25° and 46° . What is the measure of the third angle?
- A. 90°
 - B. 109°
 - C. 100°
 - D. 20°
26. What is the greatest common factor of 6 and 12?
- A. 3
 - B. 12
 - C. 6
 - D. 2
27. What is the mean of 9, 10, 10, 8, 2, 12, 12
- A. 6
 - B. 9
 - C. 12
 - D. 10
28. Which of the following is in increasing order?
- A. .653, .65, .664, .678
 - B. .346, .338, .320, .318
 - C. .786, .788, .790, .799
 - D. .54, .56, .564, .553
29. If tangerines cost 4 for \$1.00 and apples 1 for \$.45, which of the following costs the most?
- A. 2 apples and 4 tangerines
 - B. 3 apples and 2 tangerines
 - C. 3 apples and 3 tangerines
 - D. 1 apple and 6 tangerines

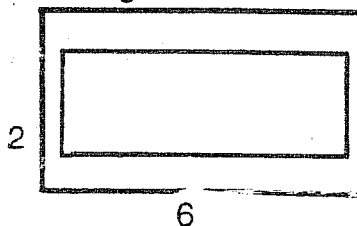
30. Hector has a cake recipe that calls for $1\frac{1}{2}$ cups of sugar, 3 cups of flour, and $\frac{3}{4}$ cup of milk. If he wants to make half this recipe, how much sugar should he use?
- A. 1 cup
B. $\frac{1}{2}$ cup
C. 3 cups
D. $\frac{3}{4}$ cup
31. Jay went to visit a friend in Macon 130 miles away. Along the way he averaged a speed of 65 mph. How long was it before Jay got to his friend's house?
- A. 1 hr. 30 min.
B. 2 hrs.
C. 1 hr.
D. 2 hr. 30 min.
32. Jeanette, David, Jason, Brock, and Chad were to meet at the school at 3:45 pm to work on a Math Team project. Jeanette and Brock arrived on time. Chad had to pick up David and was 45 min. late. Jason ran out of gas and arrived $1\frac{1}{2}$ hours late. At what time was the whole group at the school?
- A. 5:00 pm
B. 5:15 pm
C. 6:00 pm
D. 5:45 pm
33. Find the area of the triangle:

- A. 16
B. 32
C. 24
D. 6



34. Find the perimeter of the outer rectangle.

- A. 8
B. 12
C. 24
D. 16



35. Round 463.8976 to the nearest hundredths
- A. 463.90
 - B. 464
 - C. 500
 - D. 463.99
36. The most reasonable weight of an aspirin tablet would be
- A. 325 kg
 - B. 325 mg
 - C. 325 g
 - D. 325 cg
37. One-fifth of the 700 students were absent because they went to the St. Patrick's Day Parade. Half of the ones not at the parade went home early. How many students remained at school?
- A. 140
 - B. 560
 - C. 280
 - D. 420
38. In the number 345.6789, the 9 is in what place value position?
- A. ten-thousandths
 - B. hundreds
 - C. thousandths
 - D. thousands
39. The volume of a football is most likely
- A. 3375 dm^2
 - B. 3375 dm^3
 - C. 3375 cm^2
 - D. 3375 cm^3
40. $\frac{2}{3} + \frac{3}{4} + \frac{1}{3} + \frac{1}{4}$
- A. 1
 - B. 2
 - C. $\frac{3}{4}$
 - D. $\frac{1}{2}$

1995 Individual

ANSWERS

INDIVIDUAL

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