

Franklin Math Bowl
Sixth Grade Exam
2002

- 1.) Find the sum of $\frac{1}{5} + \frac{1}{10} + \frac{4}{15}$
- A. $\frac{17}{30}$
 - B. $\frac{3}{15}$
 - C. $\frac{19}{30}$
 - D. $\frac{6}{30}$
- 2.) Which digit is in the thousandths place of 5986.0971?
- A. 5
 - B. 1
 - C. 7
 - D. 9
- 3.) The expression $6 + (4 - 3) \times 3 - 7$ simplifies to
- A. 14
 - B. 28
 - C. 4
 - D. 2
- 4.) What is the correct decimal representation of $\frac{3}{8}$?
- A. .388
 - B. .385
 - C. .375
 - D. .357
- 5.) Which equation is true for $a = 2$?
- A. $3a = 2$
 - B. $9a = 18$
 - C. $a + (-5) = +3$
 - D. $2a = 2$

6.) Evaluate $4 \times 2^3 + \frac{80}{5}$

- A. 28
- B. 40
- C. 48
- D. 50

7.) Which of the following is not a factor of 540?

- A. 10
- B. 3
- C. 5
- D. 11

8.) What is 150% of 50?

- A. 200
- B. 75
- C. 115
- D. 65

9.) A point is on the line $5x - 2y = 10$. The first coordinate of this point is 3. What is the second coordinate?

- A. 3
- B. 2
- C. 3.5
- D. 2.5

10.) Simplify $m(1 + n) - m$

- A. n
- B. $m + mn$
- C. mn
- D. $2mn$

11.) Which is largest?

- A. the sum of .1 and .2
- B. .1 divided by .2
- C. the product of .1 and .2
- D. .1 squared

12.) Which statement is true?

- A. All even numbers are multiples of 9.
- B. No multiples of 9 are even numbers.
- C. Some multiples of 9 are even numbers.
- D. All multiples of 9 are odd numbers.

13.) What is the median of the group of numbers?
67, 85, 68, 97, 61, 72

- A. 75
- B. 70
- C. 68
- D. 72

14.) $2\frac{2}{3}$ yd. = ? ft.

- A. 8
- B. 12
- C. 16
- D. 10

15.) Solve: $-7 - (-4) = n$

- A. $n = 3$
- B. $n = -11$
- C. $n = -3$
- D. $n = 11$

16.) Which inequality is true?

- A. $5 < 4$
- B. $-3 > -2$
- C. $1 < -2$
- D. $-3 < -1$

17.) There are 5 students and 2 chairs. How many different seating arrangements are there?

- A. 10
- B. 6
- C. 20
- D. 7

18.) John has an unpaid balance of \$185.00 on his credit card account. The credit card company charges 2.5% interest per month on unpaid balances under \$500. What will the finance charge on his next month's bill be?

- A. \$4.63
- B. \$90.00
- C. \$187.50
- D. \$25.50

19.) $6\frac{1}{4} - 2\frac{13}{16}$ is

- A. $4\frac{9}{16}$
- B. $3\frac{7}{16}$
- C. $3\frac{1}{2}$
- D. $4\frac{3}{16}$

20.) $\frac{5}{6}$ divided by $1\frac{2}{3}$ is

- A. $1\frac{1}{12}$
- B. 2
- C. $\frac{1}{2}$
- D. $2\frac{1}{3}$

- 21.) If 30% of a number is 51, what is 40% of that number?
- A. 55
 - B. 170
 - C. 151
 - D. 68
- 22.) Which integer between 10 and 20 is a solution to $3x + 15 = 66$?
- A. $x = 20$
 - B. $x = 19$
 - C. $x = 17$
 - D. $x = 15$
- 23.) How many diagonals does a pentagon have?
- A. 3
 - B. 4
 - C. 5
 - D. 6
- 24.) Bill is older than Amanda and younger than Jill. Jill is older than Chris and younger than Pete. Chris is older than Amanda. Bill is younger than Pete. Chris is older than Bill. Who is the youngest person?
- A. Bill
 - B. Jill
 - C. Pete
 - D. Amanda
- 25.) The Lawrence Family has a pool 30 feet long and 25 feet wide. There is a walkway 4.5 feet wide around the pool. What is the perimeter of the outside of the walkway?
- A. 107 ft.
 - B. 146 ft.
 - C. 107 square ft.
 - D. 68 square ft.