Name _____   Date _____   Class_____

Decimals 6th grade Test

Choose the best answer.

1. Which number is the greatest?
   A 4,564,321,000
   B 4,569,435,982
   C 4,563,761,958
   D 4,509,438,095

2. Find the quotient: 2,488 ÷ 12
   F $27\frac{1}{3}$ H 2,476
   G $207\frac{1}{3}$ J 2,500

3. Which number has a 6 in the ten-thousands place?
   A 865,943   C 236,590
   B 507,894   D 657,321

4.

County	Population
Leon	239,452
Duval	778,879
Polk	483,924
Volusia	443,343

   Which lists the counties in order from least to greatest population?
   F Leon, Duval, Polk, Volusia
   G Duval, Polk, Leon, Volusia
   H Leon, Volusia, Duval, Polk
   J Leon, Volusia, Polk, Duval

5. Estimate by rounding to the place value indicated: 6,523 − 3,245; hundreds.
   A 6,500 − 3,200 = 3,300
   B 6,000 − 3,000 = 3,000
   C 7,000 − 3,000 = 4,000
   D 6,500 − 3,300 = 3,200

6. What is the value of $6^2 - (9 - 5) \div 4$?
   F 8   H 39
   G 35   J 42

7. What is the value of 6^4?
   A 24   C 216
   B 36   D 1,296

8. What is $7 \times 7 \times 7 \times 7$ written in exponential form?
   F 7^1 H 4^7
   G 7^3 J 7^4

9. Use mental math to find the sum of $18 + 2 + 37 + 3$.
   A 20   C 40
   B 30   D 60

10. Which number is the greatest?
    F 123,458   H 122,984
    G 132,654   J 132,645

11. Meredith works 11 hours per day, 6 days a week. How many hours does she work in a 5-week period?
    A 66 hours   C 330 hours
    B 132 hours   D 462 hours

12. Which is a solution to the equation $\frac{x}{7} = 12$?
    F $x = 19$ H $x = 72$
    G $x = 60$ J $x = 84$

13. Estimate $7.42 + 15.07$.
    A 7 + 15 = 22   C 6 + 15 = 21
    B 7 + 16 = 23   D 6 + 14 = 20

Decimals
Cumulative Test

14. A special camera film costs $8 per roll. If you spent $120 on this film, how many rolls did you buy?

   F 12   H 15
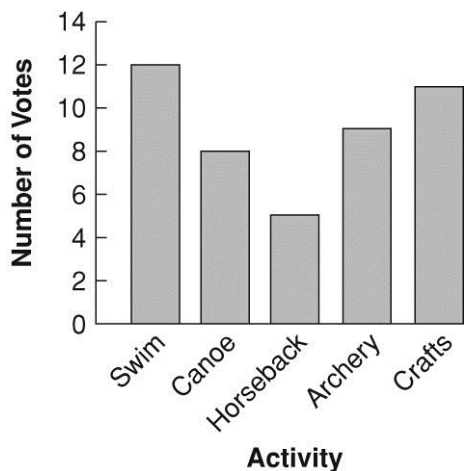
   G 14   J 960

15. Solve $x + 87 = 123$.

   A $x = 38$ C $x = 210$

   B $x = 56$ D $x = 10{,}701$

16. Which phrase does NOT describe the expression $2 + 78x$?

   F 2 plus 78 times x

   G the product of 78 and x

   H 2 more than the product of 78 and x

   J 78 times x increased by 2

The bar graph shows the 6th graders' favorite summer day camp activities.

Day Camp Favorite Activities

17. How many more students chose crafts than horseback riding?

   A 4   C 6

   B 5   D 7

18. How many students voted for swimming?

   F 10   H 12

   G 11   J 13

19. Which activity had 3 more votes than horseback riding?

   A canoeing   C swimming

   B crafts   D archery

20. Which is a solution to the equation $12a = 144$?

   F $a = 9$ H $a = 11$

   G $a = 10$ J $a = 12$

21. Which is a solution to the equation $w + 134 = 543$?

   A $w = 109$ C $w = 409$

   B $w = 210$ D $w = 677$

22. Which is a solution to the equation $y - 38 = 86$?

   F $y = 48$ H $y = 134$

   G $y = 124$ J $y = 3{,}268$

23. Find the missing value in the table.

a	$9a + 2$
8	74
12	?

   A 108   C 116

   B 110   D 914

24. Which means "6 times a"?

   F $6 + a$ H $6a$

   G $6 - a$ J $6 \div a$

Decimals

Cumulative Test

25. Which of the following is a phrase for $9n \div 2$?

    A the product of 9 times n and 2

    B the product of 9 minus n and 2

    C the quotient of nine times n and 2

    D the quotient of n and 2

26. Evaluate $11h - 6$ for $h = 6$.

    F 60   H 110

    G 66   J 116

27. Brigetta's car will hold 25 cartons of books. What is the least number of trips that she must make in order to deliver 250 cartons?

    A 5   C 15

    B 10   D 20

28. Which value of x makes the equation true? $x - 9 = 12$

    F $x = 3$ H $x = 21$

    G $x = 15$ J $x = 108$

29. Which value of x makes the equation true? $7x = 56$

    A $x = 8$ C $x = 12$

    B $x = 10$ D $x = 49$

30. The area of a rectangular patio is 450 square feet. The width is 18 feet. What is its length?

    F 5 feet   H 25 feet

    G 10 feet   J 45 feet

31. Which of the following has a solution of 18?

    A $w + 10 = 9$ C $y - 18 = 35$

    B $18a = 324$ D $\dfrac{p}{7} = 3$

32. What is the product of 0.2×4.25?

    F 0.85   H 85

    G 8.5   J 850

33. Which number is the greatest?

    A 20.125   C 20.250

    B 20.2   D 20.24

34. Estimate the total cost of going camping by rounding the sum of the following costs to the nearest dollar.

site rental	$12.95
parking	$4.30
equipment	$9.76
food	$8.23

    F $36.00   H $33.00

    G $35.00   J $32.00

35. Which measurement is equivalent to 880 cm?

    A 88 mm   C 8.8 m

    B 0.88 km   D 8,800 km

36. The area of a rectangle is 49.875 cm². Its length is 10.5 cm. Solve $10.5w = 49.875$ to find the width.

    F 3.75 cm   H 5 cm

    G 4.75 cm   J 0.475 cm

37. Mr. Maro is building a fence. The fencing comes in sections, each 2.5 meters wide. If the fence is to be 30 meters long, how many sections of fencing does he need?

    A 11   C 10

    B 12   D 9

Decimals

Cumulative Test

38. What is 3.204 written in words?

   F three and two hundred four tenths

   G three and two hundred four hundredths

   H three thousand two hundred four

   J three and two hundred four thousandths

39. Which set of decimals is ordered least to greatest?

   A 15.8, 15.08, 15.78

   B 15.08, 15.78, 15.8

   C 15.8, 15.78, 15.08

   D 15.08, 15.8, 15.78

40. Solve $15.6 + w = 23.9$.

   F $w = -8.3$ H $w = 39.5$

   G $w = 8.3$ J $w = 372.84$

41. Lee and two friends went to the circus. They each bought a stuffed tiger. The total bill was $47.97. How much did each tiger cost?

   A $12.99   C $15.99

   B $14.21   D $16.23

42. Solve $w - 7.6 = 4.6$.

   F $w = 12.2$ H $w = 3$

   G $w = 1.122$ J $w = 2.3$

43. Convert 4,900 mL = _____ L.

   A 490 L   C 4.9 L

   B 49 L   D 0.49 L

44.   Find $18 - 0.4$.

   F 18.6   H 17.6

   G 18.4   J 17.4

45. Solve $8x = 76.8$.

   A $x = 9$ C $x = 10.2$

   B $x = 9.6$ D $x = 11.1$

46. A piece of fabric is 25.5 in. wide. How many whole strips, each 2.25 in. wide, can be cut from the fabric?

   F 10   H 12

   G 11   J 13

47. A surveyor marks off 15 small adjacent lots each 0.1 mile wide. What is the total width in miles?

   A 1 mile   C 1.75 miles

   B 1.5 miles   D 0.15 mile

48. It costs $105.00 to buy 7 pieces of sewer pipe. What is the cost per piece of pipe?

   F $14.00   H $15.00

   G $14.50   J $16.00

49. Rwanda had $342.15 in her checking account. She wrote a check to Foodtown for $62.15. How much does she now have in her checking account?

   A $176.15   C $317.00

   B $280.00   D $404.30

50. Solve $\dfrac{x}{9} = 8.4$.

   F $x = 72$ H $x = 78.3$

   G $x = 75.6$ J $x = 82.1$