

Name: \_\_\_\_\_

## CTJan27 Online Mathematics Year 4 Practice Test 02

1. Which is 8,256 in expanded notation?

- a.  $8,000 + 200 + 56$
- b.  $8,200 + 50 + 6$
- c.  $8,000 + 200 + 50$
- d.  $8,000 + 200 + 50 + 6$

2. A number pattern is shown below.

100, 95, 110, 105, 120, ...

If this pattern continues, what number will come next?

- a. 100
- b. 115
- c. 120
- d. 130

3. What is the value of 6 in 6,209?

- a. 6
- b. 600
- c. 6,000
- d. 600,000

4. Which is 6,382 in expanded form?

- a.  $6,000 + 300 + 82$
- b.  $6,300 + 80 + 2$
- c.  $6,000 + 80 + 2$
- d.  $6,000 + 300 + 80 + 2$

5. What is 42,496 rounded to the nearest ten thousand?

- a. 43,000
- b. 42,500
- c. 40,000
- d. 42,000

6. Which number has a 5 in the ten-thousands place?

- a. 652,341
- b. 562,341
- c. 462,541
- d. 265,401

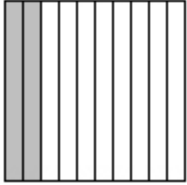
7. Tyler and his father are raising funds for a new animal shelter. So far, Tyler has raised \$2,789. His father has raised \$1,286. How much have they raised altogether?
- \$3,005
  - \$3,065
  - \$4,065
  - \$4,075
8. Choose an answer that has a digit in the hundreds place that has a greater value than the digit in the thousands place.
- 101,100
  - 428,304
  - 580,340
  - 873,212
9. What is 7,051 rounded to the nearest thousand?
- 7,100
  - 7,050
  - 7,000
  - 7,200
10. Which of the following numbers is prime?
- 4
  - 17
  - 24
  - 100
11. In a 2013 poll, 905,160 people participated from Jones County. Which option shows this number in word form?
- ninety-five thousand, sixteen
  - nine hundred five thousand, one hundred sixty
  - nine hundred fifty thousand, sixty
  - nine hundred five thousand, one hundred six
12. Choose the correct number for four thousand, sixty-five.
- 400,065
  - 4,065
  - 465
  - 40,606
13. Choose the correct symbol  $<$  ,  $=$  , or  $>$ .
- 2.0 \_\_\_\_\_ 0.2

14. Which symbol correctly compares the two decimals?

$$0.56 \underline{\hspace{1cm}} 0.53$$

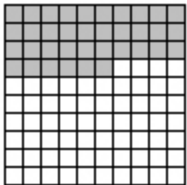
- a. =
- b. >
- c. <

15. Which decimal and fraction are shown by the grid?



- a.  $0.2, \frac{2}{10}$
- b.  $0.2, \frac{2}{100}$
- c.  $0.02, \frac{2}{10}$
- d.  $0.02, \frac{2}{100}$

16. Which decimal and fraction are shown by the grid?



- a.  $0.36, \frac{36}{10}$
- b.  $0.36, \frac{36}{100}$
- c.  $0.46, \frac{46}{10}$
- d.  $0.46, \frac{46}{100}$

17. Convert the following fraction to a decimal.

$$\frac{5}{100}$$

- a. 0.5
  - b. 0.05
  - c. 0.005
  - d. 0.50
18.  $4 \times 3 + 6 =$
- a. 12
  - b. 17
  - c. 18
  - d. 45
19. Evaluate the expression.  
 $3 + [2 + (3 \times 1)] - 1$
- a. 7
  - b. 8
  - c. 9
  - d. 6
20. Which part of the numerical expression should be evaluated first?  
 $10 + [(8 - 2) + (5 - 3)]$
- a.  $10 + 8$
  - b.  $8 - 2$
  - c.  $5 - 3$
  - d.  $6 + 2$
21. Evaluate.  
 $\{[(2 + 6) \times 5] + [(8 \times 5) - 12]\} \div 4$
- a. 15
  - b. 17
  - c. 61
  - d. 68
22. Evaluate the expression.  
 $5 \times [(7 - 4) + (3 \times 5)]$
- a. 18
  - b. 30
  - c. 46
  - d. 90
23. IV is the number 4 in Roman Numerals.
- a. True
  - b. False
24. Write CMIII as a number.

25. Martha and Yolanda are writing number sequences. Yolanda wrote the following number sequence. 35.9, 34.7, 33.5, \_\_\_\_\_, 31.1. What is the unknown term in this sequence?
- 32.3
  - 32.2
  - 32
  - 31.2
26. Which is the next ordered pair in the pattern?
- (10, 5), (8, 4), (6, 3)
- (2, 4)
  - (2, 5)
  - (4, 2)
  - (5, 2)
27. Which is the missing ordered pair in the pattern?
- (3, 9), (5, 15), (?, ?), (9, 27)
- (6, 9)
  - (6, 18)
  - (7, 10)
  - (7, 21)
28. Which of the following shows the number 10,000 written as a power of 10?
- $10^3$
  - $10^4$
  - $10^5$
  - $10^6$
29. Which value is equivalent to  $5 \times 10^6$ ?
- five thousand
  - fifty thousand
  - five million
  - fifty million
30. What is this number in standard form?
- $$9 \times 10^5 + 7 \times 10^4 + 3 \times 10^3 + 5 \times 10^2 + 3 \times 10^1 + 2 \times 10^0$$
- 9,735,320
  - 973,532
  - 97,353
  - 970,532

31. Fernando bought a basketball for \$23, a pair of running shoes for \$35, and a baseball cap for \$7. He wrote that equation  $23 + 35 + 7 = 23 + 7 + 35$ . What property did Fernando use?
- Associative Property of Addition
  - Commutative Property of Addition
  - Distributive Property
  - Identity Property of Multiplication

32. Cindy works as a waitress. She gets paid \$50 for each shift. How much money has she made after working 6 shifts?
- 300
  - 30
  - 250
  - 350

33. Which of the rules below represents the pattern?



- black = white X 2
  - black X 3 = white
  - white + 3 = black
  - 3 X white = black
34. Use mental math and a pattern to find the product.

$$(8 \times 7) \times 10^4$$

- 560
- 5,600
- 56,000
- 560,000

35. Add.

$$\frac{1}{4} + \frac{2}{5}$$

- $\frac{3}{9}$
- $\frac{13}{20}$
- $\frac{3}{20}$
- $\frac{9}{20}$

36. A patient is given  $1\frac{1}{2}$  teaspoons of medicine in the morning and  $2\frac{1}{4}$  teaspoons at night. How many teaspoons does the patient receive daily?

- a.  $3\frac{1}{2}$
- b.  $3\frac{1}{4}$
- c.  $3\frac{3}{4}$
- d.  $\frac{3}{4}$

37. Which fraction and decimal represent the number of pictures that are trees?



- a.  $\frac{1}{4}$ ; 0.5
- b.  $\frac{2}{4}$ ; 0.5
- c.  $\frac{1}{4}$ ; 0.25
- d.  $\frac{2}{4}$ ; 0.25

38. Leo wrote  $\frac{2}{10}$  of the songs for a concert. Kim wrote  $\frac{3}{10}$  of the songs for the same concert. What fraction of the total number of songs for the concert did Leo and Kim write?

- a.  $\frac{5}{10}$
- b.  $\frac{1}{2}$
- c.  $\frac{1}{10}$
- d.  $\frac{5}{20}$

39. Look at the fractions below.

$$\frac{13}{16}, \frac{5}{8}, \frac{3}{16}, \frac{3}{4}, \frac{7}{8}$$

Which lists these fractions from least to greatest?

a.  $\frac{7}{8}, \frac{13}{16}, \frac{3}{4}, \frac{5}{8}, \frac{3}{16}$

b.  $\frac{3}{4}, \frac{5}{8}, \frac{3}{16}, \frac{13}{16}, \frac{7}{8}$

c.  $\frac{7}{8}, \frac{5}{8}, \frac{3}{4}, \frac{13}{16}, \frac{3}{16}$

d.  $\frac{3}{16}, \frac{5}{8}, \frac{3}{4}, \frac{13}{16}, \frac{7}{8}$

40. Find the product. Choose the answer that is in simplest form.

$$\frac{3}{7} \times \frac{14}{21}$$

a.  $\frac{42}{147}$

b.  $\frac{2}{7}$

c.  $\frac{9}{14}$

d.  $\frac{6}{21}$

41. Find the missing number in the equivalent fractions below.

$$\frac{4}{x} = \frac{16}{24}$$

a. 6

b. 96

c. 20

d. 12

42. How many faces does a rectangular prism have?

a. 4

b. 5

c. 6

43. Convert 560 mg to g.

a. 506 g

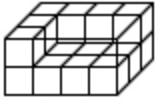
b. 0.0056 g

c. 56,000 g

d. 0.56 g



44. What is the volume of the rectangular prism in cubic units?



- a. 13 cubic units
- b. 19 cubic units
- c. 20 cubic units
- d. 24 cubic units

45. How many grams are in a kilogram?

- a. 10
- b. 100
- c. 1,000
- d. 10,000

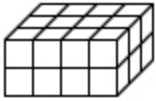
46.     \$8.74

— \$2.75

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- a. \$5.99
- b. \$6.01
- c. \$6.09
- d. \$6.79

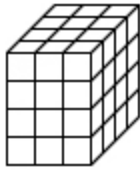
47. In this right rectangular prism, each small cube measures 1 unit on each side.



What would be the volume of a new right rectangular prism that has 6 fewer unit cubes than the original prism?

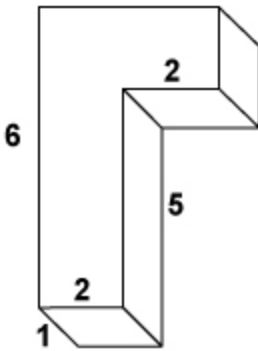
- a. 16 cubic units
- b. 18 cubic units
- c. 24 cubic units
- d. 30 cubic units

48. In this right rectangular prism, each small cube measures 1 centimeter on each side.

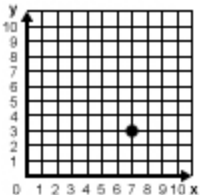


Select the TWO expressions that could be the dimensions of a new right rectangular prism that has 12 more centimeter cubes than the original prism.

- a.  $2 \times 5 \times 6$
  - b.  $3 \times 8 \times 2$
  - c.  $4 \times 2 \times 8$
  - d.  $5 \times 3 \times 4$
  - e.  $9 \times 2 \times 2$
49. What is the volume of the figure in cubic units? Figure not shown to scale.



- a. 10
  - b. 14
  - c. 16
  - d. 28
50. Daniel is shown the coordinate grid with a point plotted.



He must plot a second point on the plane using the following rules:

Start at the plotted point. Subtract 4 from the x-coordinate. Add 5 to the y-coordinate.

Which ordered pair should Daniel plot on the grid?

- a. (3, 8)
- b. (3, 7)
- c. (11, 7)
- d. (11, 8)