Practice Test #2

http://www.4tests.com/ged-2014

1) Simplify the following using scientific notation:

$(8.76 \times 10^{9})(6.52 \times 10^{-3})/13.27 \times 10^{5}$

- 4.3×10^{1}
- 0.43×10^{1}
- 43×10^{-1}
- 43.06×10^{-2}

2) Simplify the following using scientific notation:

$(83.9 \times 10^{12})(2.87 \times 10^{-3})/3.76 \times 10^{2}$

- 0.6404×10^{-1}
- 6.404×10^{18}
- 64.04×10^{-1}
- $6.404069148 \times 10^{8}$

3) Sort the following fractions in ascending order:

7/8, 9/10, 16/20

- $^{9}/_{10}$, $^{7}/_{8}$, $^{16}/_{20}$
- $^{7}/_{8}$, $^{9}/_{10}$, $^{16}/_{20}$
- $^{16}/_{20}$, $^{7}/_{8}$, $^{9}/_{10}$
- $^{7}/_{8}$, $^{16}/_{20}$, $^{9}/_{10}$

4) Divide these fractions and choose the correct answer from the options listed below.

$2^{1/3} / 7^{3/8}$ (this is 2 and one third divided by 7 and three eighths)

- $^{65}/_{177}$
- $^{56}/_{177}$
- $^{177}/_{56}$
- $^{177}/_{65}$

5) An investor invests $2,500 into a mutual fund and earns 5.75% on the principle for each of three years. How much interest has accrued at the end of the period?

- $413.25
- $4,132.50
- $431.25
- $571.00

6) Use order of operations to solve for the following:

$3(4-7)^2 + 10/5$

- 29
- 83
- 18.2
- 6
- 5

7) Disregard this problem.

8) Solve for n.

n + 28 = -84

- 56
- -56
- 112
- -112

9) Solve using the substitution method.

y = 3x - 2
3x + 4y = 22

- x=3
  y=5
- x=5
  y=3
- x=2
  y=4
- x=4
  y=2

10) If a class has 10 men and 14 women, what is the ratio of men to the class?

- 10:14
- 14:10
- 14:24
- 10:24

11) If rope costs $3.20 per yard, or $0.15 per inch, which is the better deal?

NOTE: 1 yard equals 3 feet equals 36 inches

- 15 cents per inch
- $3.20 per yard

- Both are the same.
- Information provided is not enough to determine an answer.

12) Which of the following ratio pairs forms a proportion?

- $^{3}/_{5}=^{15}/_{26}$
- $^{17}/_{20}=^{51}/_{60}$
- $^{3}/_{8}=^{65}/_{160}$
- $^{4}/_{7}=^{12}/_{28}$

13) The line connecting points (3,-6) and (-9,2) has slope:

- $-^{2}/_{3}$
- $^{2}/_{3}$
- $-^{8}/_{10}$
- $^{8}/_{12}$

14) A line with the coordinates (7,y) and (-2,-4) has slope 3/4. What is the value of y?

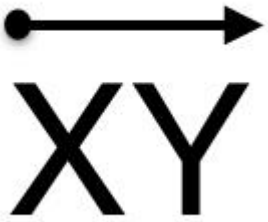
- 2.75
- 6
- -6
- -2.75

15)

XY is called a:

- line segment
- line
- ray
- ray segment

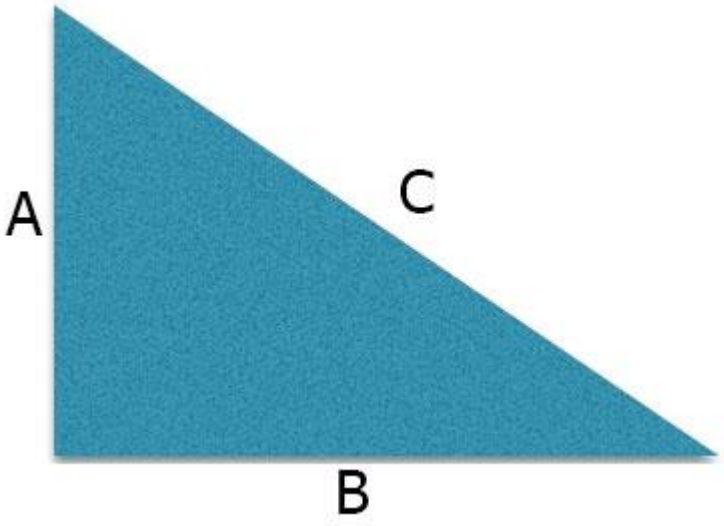
16)



XY is called a:

- ray
- ray segment
- line
- line segment

17)



Solve for b:

a = 14
b = ?
c = 50

- b=44
- b=50
- b=48
- b=-48

18) Two supplementary angles have measures of 9x degrees and 3x degrees. What is the measure of the longer angle?

- 180 degrees
- 45 degrees
- 135 degrees
- 15 degrees

19) Determine the coordinates for the midpoint of a segment with the following endpoints: (12,-8) and (8,-4).

- (-10,6)
- (6,-10)
- (-6,-10)
- (10,-6)

20) A triangle has an area of 110 square inches and a base of 15 inches. Which answer best pinpoints the height?

- 14 inches
- 18 inches

- 18.66 inches
- 14.66 inches

21) A great circle of a sphere lies on its surface and contains its center. What is the circumference of a great circle of a sphere that has a surface area that measures 1,476 square centimeters?

NOTE: Π (or Pi) equals 3.14.

- Approximately 68.1
- 74.5
- 86.1
- 54.7

22) What is the mean of this data set?

8, 47, 13, 17, 26, 32

- 23.83
- 23.79
- 23.62
- 24

23) What is the median of this data set?

17, 42, 53, 97, 102, 82

- 76.5
- 53
- 67.5
- 42

24) There are three books sold in different quantities. A $10 book sells six copies. A $5 book sells five copies. A $2 book sells three copies. What is the median price of the

book?

- $6.50
- $6.20
- $5.00
- $5.25

25) Identify mode for the following data:

2, 2, 2, 2, 7, 7, 7, 7, 7, 7, 9, 9, 9, 11, 11, 13, 12, 9, 9, 9, 2, 7, 7, 7

- 2
- 7
- 11
- 9

26) Solve using the substitution method:

NOTE: Round long decimals to the nearest one hundredth.

$y = 3x - 87$
$3x + 2y = 21$

- x=-21.67
  y=21.99
- x=21.67
  y=-21.99
- x=21.67
  y=21.99
- x=-21.99
  y=-21.67

27) If the product of 6 and an integer, n, is increased by 13, the result is -14. What is the value of n?

- -4.5
- 4.5
- 162
- 148

28) Solve for the positive value of c.

$9c^2 - 11 = 718$

- 6
- 9
- 11
- 4

29) Solve for x:

$-5x - 5 > 15$

- $x > -4$
- $x < -4$
- $x = -4$
- $x = -4$

30) Solve for x:

$-2(5 - 3x) = 12 - 3(5 - x)$

- $^{7}/_{6}$
- $-^{7}/_{6}$
- $^{7}/_{3}$
- $-^{7}/_{3}$