General Education – Math (Practice Test)

1. Simplify the expression $5 - 4\,(3 - 4)^3 + 10 \div 2$.
   a. 14 c. 6
   b. 9.5 d. 4.5
2. What is the biggest prime number below 100?
   a. 99 c. 97
   b. 91 d. 93
3. The least common multiple of 6, 7, and 9 is ___.
   a. 378 c. 126
   b. 189 d. 63
4. The GCF of 92 and 115 is ___.
   a. 46 c. 13
   b. 23 d. 6
5. The ten thousandths digit of 98, 765.4321 is ___.
   a. 9 c. 2
   b. 8 d. 1
6. Among the given decimals, which is equivalent to 9%?
   a. 9.0 c. 0.09
   b. 0.009 d. 0.9
7. The total amount after adding 8% interest for 3 months of P6,000?
   a. P11,500.00 c. P10,500.00
   b. P6,120.00 d. P11,050.00
8. The price of the condominium unit increased by 300,000 pesos after it was turned over. If the selling price is 2.8 million pesos, how much percent has the value of the condominium appreciated?
   a. 12% c. 19%
   b. 18% d. 23%
9. Due to high demand, the price of a certain product increased by 27.5%. If the original price is $145, how much is the price increase?
   a. $389.75 c. $184.875
   b. $244.75 d. $39.875
10. 700 is what percent of 400?
    a. 32% c. 132%
    b. 68% d. 175%
11. What number decreased by 60% of itself gives 224?
    a. 640 c. 480
    b. 560 d. 400
12. A financial advisor gets 45% commission on his total sales. How much commission will he get if his total sales is 800,000?
    a. 350,000 c. 360,000
    b. 400,000 d. 320,000
13. The literal coefficient of $-7x^3m^2n$ is ____.
    a. -7 c. x^3
    b. x^3m^2n d. 6
14. Simplify the expression
    $4x^3 - 3xy + 5y^2 - 2 - x^3 + 5x^2 - 6xy - 7$
    a. $3x^3 - 5x^2 + 5y^2 - 9xy - 9$
    b. $3x^3 + 5x^2 + 5y^2 - 9xy - 9$
    c. $3x^3 - 5x^2 + 5y^2 - 9xy + 5$
    d. $3x^3 + 5x^2 + 5y^2 - 9xy + 5$
15. Solve: $7x + 5y + x + y - 5x + 2y$
    a. $3x + 8y$ c. $8x + 8y$
    b. $-3x + 8y$ d. $3x - 8y$
16. Which property of real numbers best describes the equation $-4(x - 2) = -4x + 8$?
    a. Distributive c. Associative
    b. Commutative d. Closure
17. What property of real number illustrates the equation $2x - 10 = -10 + 2x$?
    a. Closure
    b. Associative
    c. Commutative
    d. Distributive
18. Lauder is planning to borrow 850.00 pesos from the bank at a rate of 4% for 3 years. How much interest does Lauder have to pay?
    a. 964, 750 pesos
    b. 888, 250 pesos
    c. 102, 000 pesos
    d. 38, 250 pesos
19. Assume you invested $5,000 in an account that makes 3.2% interest annually and kept it for 9 years. How much interest will you earn?
    a. $1,440 c. $1,180
    b. $1,200 d. $1,050