Paraprofessional Practice Test

Read each question carefully, and then print the letter of the correct answer on the line next to the question.

_____ 1. The square root of 20 is between:
     a. 2 and 3
     b. 4 and 5
     c. 6 and 7

_____ 2. What is 120,000,000 in Scientific Notation?
     a. 1.2×10^7
     b. 1.2×10^8
     c. 1.2×10^{-8}
     d. 1.2×10^{-7}

_____ 3. Write the following as an equation:
     "The product when X is multiplied by 5"?
     a. $X \div 5$
     b. $X \cdot 5$
     c. $X + 5$

Use the information below to answer questions 5 and 6:
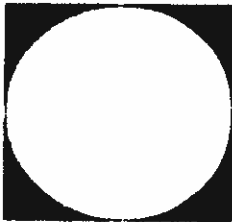The Prices for 5 speakers are as follows: $45; $41; $38; $50; $50

_____ 4. N/A

_____ 5. What is the MEDIAN price?
     a. $45
     b. $38
     c. $44.80
     d. $50

_____ 6. What is the MODE price?
     a. $45
     b. $38
     c. $44.80
     d. $50

_____ 7. The following graph represents the color of a man's shirt compared to the man's happiness. What conclusion can be made about the graph?

Color of Shirt

a. As the color increases, the man's happiness increases.
b. As the color increases, the man's happiness decreases.
c. There is not relationship between the two.
d. As the color increases, there are no changes to the man's happiness.

_____ 8. A bag contains 10 green M&M's, 12 blue M&M's, 8 red M&M's, and 3 brown M&M's. What is the probability that an M&M chosen at random will be brown?

a. $\frac{1}{11}$

b. $\frac{1}{3}$

c. $\frac{3}{11}$

d. $\frac{3}{10}$

_____ 9. Solve for X.
$$3X + 9 > 18$$

a. $X > 9$
b. $X > 3$
c. $X > 2$
d. $X >$

_____ 10. One Millimeter is:
a. 1,000 Meters

b. $\frac{1}{1,000}$ Meters
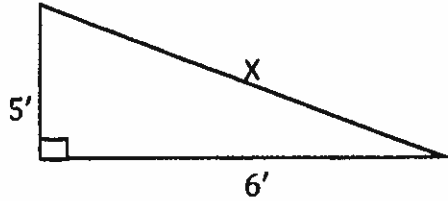
c. 100 Meters

d. $\frac{1}{100}$ Meters

2

_____ 11. One Centimeter is:
- a. 1,000 Meters
- b. $\frac{1}{1,000}$ Meters
- c. 100 Meters
- d. $\frac{1}{100}$ Meters

_____ 12. If Y is any odd number, which one of the following is true about $Y + 1$?
- a. It is odd.
- b. It is even.
- c. It is the same number.
- d. There is not enough information.

_____ 13. The points (1,3) (2,2) and (3,4) are the vertices of what type of polygon?
- a. Triangle
- b. Rectangle
- c. Square
- d. Trapezoid

_____ 14. Using the Figure Below, if the largest possible circle is removed from a 10×10 foot square, approximately how many square feet are left?

10'

- a. 21'
- b. 68'
- c. 214'
- d. 100'

3

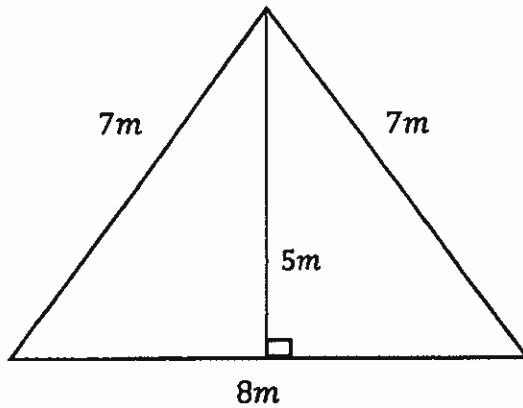_____ 15. In the Right Triangle below, the value of X is approximately how many feet?

5'

X

6'

a. 6'
b. 11'
c. 8'
d. 61'

_____ 16. During the past 3 days, Janet ran 12 miles of a 76 mile run. How long will it take for Janet to finish the run?
a. 19 days
b. 4 days
c. 64 days
d. 16 days

Use the triangle below to answer questions 17 and 18:

7m

7m

5m

8m

_____ 17. The area of the triangle is:
a. $20m^2$
b. $22m^2$
c. $40m^2$
d. $56m^2$

_____ 18. The Perimeter of the triangle is:
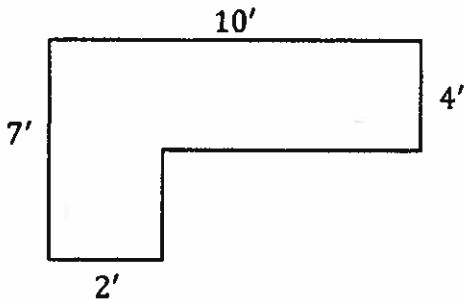a. $27m$
b. $11m$
c. $22m$
d. $61m$

_____ 19. $5.18 \times .52 =$
     a. 269.36
     b. 26.936
     c. 2.6936
     d. .26936

_____ 20. $56,456.12 - 3,564.08$
     a. 52,891.32
     b. 2,080.32
     c. 52,892.04
     d. 53,892.04

_____ 21. N/A

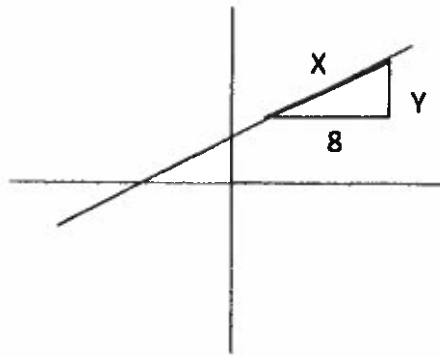_____ 22. Tony wants to fence his yard. The dimensions of the yard are as follows:

What is the perimeter of the yard?
     a. 34'
     b. 23'
     c. 22'
     d. 40'

_____ 23. Using the in #22, what is the Area of the yard?
     a. $70\ ft.^2$
     b. $46\ ft.^2$
     c. $54\ ft.^2$
     d. $40\ ft.^2$

_____ 24. The selling price of an item is 25% above the cost of goods to the vendor. There is an 8% discount for cash payments. The profit on a cash sale is:
     a. 14%
     b. 15%
     c. 17%
     d. 20%

_____ 25. The selling price of an item is 20% above the cost of goods to the vendor. There is a 10% discount for cash payments. The profit on a cash sale is:
   a. 10%
   b. 8%
   c. 15%
   d. 12%

_____ 26. Using the graph below, if the slope of line X is $\frac{1}{4}$, what is the length of line Y?

   a. 2"
   b. 4"
   c. 6"
   d. 12"

_____ 27. Solve for Y.
   $|Y| = 5$

   a. -5 or 0
   b. -5 or 5
   c. 0 or 25
   d. -25 or 25

_____ 28. Assume Y is an integer. Solve for Y:
   $|2Y + 3| = 7$

   a. (7, -7)
   b. (2, -5)
   c. (5, -2)
   d. (2, -2)

6

_____ 29. Assume Y is an integer. Solve for Y:

$$|Y - 2| = 4$$

    a. (6,-2)
    b. (-6, 2)
    c. (6, 6)
    d. (2, -2)

_____ 30. Which one of the following is equivalent to the inequality shown below?

$$5 - 3X > 6(4X + 2)$$

    a. $5 - 3X > 12X + 8$
    b. $5 - 3X > 24X + 2$
    c. $5 - 3X > 24X - 12$
    d. $5 - 3X > 24X + 12$

_____ 31. Which one of the following is equivalent to the equation shown below?

$$\frac{12}{X} = \frac{5}{X-2}$$

    a. $12X - 24 = 5X$
    b. $60 = X(X - 2)$
    c. $5(X - 2) = 12X$
    d. $12X = 5X$

_____ 32. The x-intercept is the point where the line crosses the x-axis. What are the coordinates of the x intercept of the line $3X + 5Y = 15$?
    a. (0, 5)
    b. (0, 3)
    c. (5, 0)
    d. (3, 0)

_____ 33. If $-8X = 24$, then X is:
    a. 0
    b. 3
    c. -3
    d. 6

_____ 34. Simplify: $-8X + 4Z - Z + 2X$.
    a. $6X + 5Z$
    b. $-6X + 3Z$
    c. $-7X + 6Z$
    d. $5X + 9Z$

_____ 35. Choose the best estimate of 8.6×21
      a. 180.6
      b. 18.06
      c. 1.806
      d. .1806

_____ 36. How many inches are in one yard?
      a. 12
      b. 24
      c. 36
      d. 48

_____ 37. $\dfrac{g^5}{g^2} =$
      a. g^7
      b. g^3
      c. g^{-3}
      d. g^1

_____ 38. Julie made $\dfrac{1}{5}$ of the cupcakes in a bake sale. There wer 35 cupcakes on the table. How many did she make?
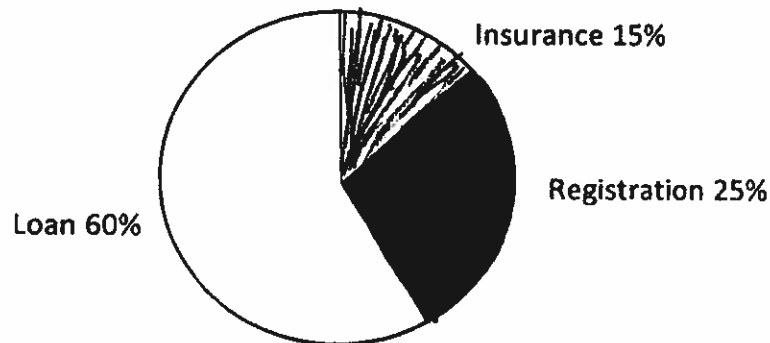   a. 7
      b. 5
      c. 10
      d. 12

_____ 39. N/A

_____ 40. $1\dfrac{2}{5} + \dfrac{2}{3} =$
      a. $2\dfrac{1}{15}$
      b. $1\dfrac{1}{2}$
      c. $\dfrac{11}{15}$
      d. $3\dfrac{1}{11}$

_____ 41. Tom's financial advisor recommends he puts $80 per week in his savings plan. This is 40% of the amount he earns weekly. What does he earn per week?
   a. $150
   b. $200
   c. $75
   d. $250

_____ 42. $y^6 \times y^3 =$
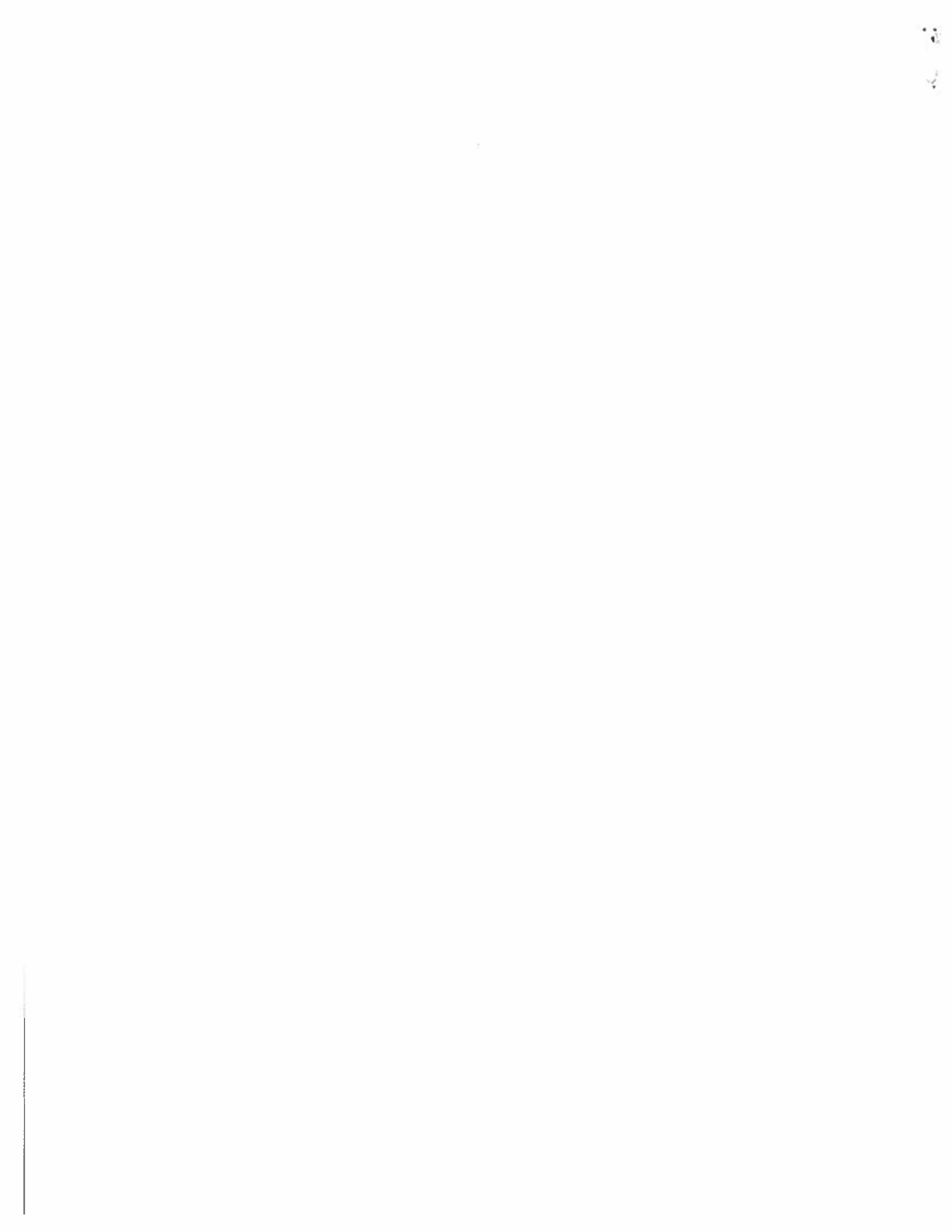   a. y^9
   b. y^3
   c. y^{-3}
   d. y^{18}

_____ 43. The following graph represents the monthly car budget.

Insurance 15%

Registration 25%

Loan 60%

If Sally budgets $1,400 per month for her car, how much does she pay in Registration?
   a. $290
   b. $600
   c. $350
   d. $840

_____ 44. N/A

_____ 45. Luis drove 350 miles from San Francisco to Reno in 4 hours, 15 minutes. Which one of the following computations is used to obtain Luis' average speed in miles per hour?
   a. Multiply 350 by 4.15
   b. Multiply 350 by 4.25
   c. Divide 350 by 4.15
   d. Divide 350 by 4.25

Paraprofessional Practice Test- Answer Key

1 **b**	23 **b**
2 **b**	24 **c**
3 **b**	25 **a**
4 **N/A**	26 **a**
5 **a**	27 **b**
6 **d**	28 **b**
7 **a**	29 **a**
8 **a**	30 **d**
9 **b**	31 **a**
10 **b**	32 **c**
11 **d**	33 **c**
12 **b**	34 **b**
13 **a**	35 **a**
14 **a**	36 **c**
15 **c**	37 **b**
16 **d**	38 **a**
17 **a**	39 **N/A**
18 **c**	40 **a**
19 **c**	41 **b**
20 **c**	42 **a**
21 **N/A**	43 **c**
22 **a**	44 **N/A**
	45 **d**