Republika ng Pilipinas

KAGAWARAN NG EDUKASYON

Rehiyon XII

SANGAY NG PAARALANG LUNGSOD

_____ DISTRICT

Lungsod ng _____

FOURTH PERIODICAL TEST IN MATHEMATICS IV

Name:_____ **Date_____**

Grade & Section _____ **Teacher_____**

Directions: Read and understand the following. .

I .Write TRUE if the statement is true and FALSE, if not.

____ 1. A solid figure is a 3-dimensional figure. It has length , width , and height.

____ 2.Volume is measured in cubic units, such as cubic centimeters (cm^3).

____ 3.Non-standard units cannot be used to measure volume.

____ 4. Standard units give a consistent and accurate measure of the volume of a container.

____ 5. The volume of a rectangular prism is equal to the product of its length, width, and height . V = l x w x h cubic units

____ 6. The amount of space inside an object is called the volume of the object.

____ 7. Volume is measured in square units.

____ 8. To find the volume of rectangular prism multiply the length, width and height.

____ 9. Objects with different shapes can have the same volume.

____10.When the non-standard unit used is small, few units are needed to fill a container. When the non-standard unit used is bigger, more units are needed to fill the container.

II . Read each problem then, answer the questions that follow.

A rice field in the shape of a parallelogram is 300 meters long. The perpendicular distance between the base and its opposite side is 120 meters. What is its area?

11. What is asked for in the problem?_____

12. What facts are given?_____

13. What is the formula to solve the problem?_____

14. How is the solution done?_____

15. What is the complete answer?_____

A triangular pond has a base of 10 meters and a height of 6 meters. What is the area of the pond?

16. What is asked in the problem?_____

17. What are given facts?_____

18. What is the formula to solve the problem?_____

19. How is the solution done?_____

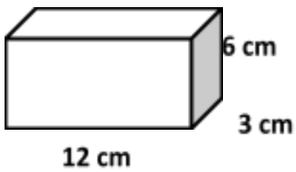
20. What is the complete answer?_____

A garden inside a park has the shape of a trapezoid. Its bases are 8 meters and 6 meters. The perpendicular distance between these bases is 7 meters. What is the area of the garden?

21. What is asked for in the problem?_____
22. What are given facts? _____
23. What is the formula to solve the problem?_____
24. How is the solution done? _____
25. What is the complete answer? _____

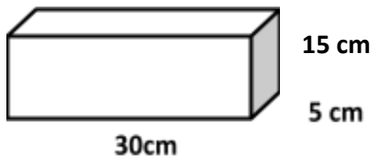
III. Find the volume of each solid figure below.

26.



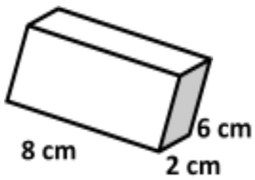
Volume:_____

27.



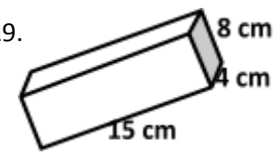
Volume:_____

28.



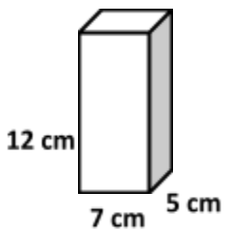
Volume: _____

29.



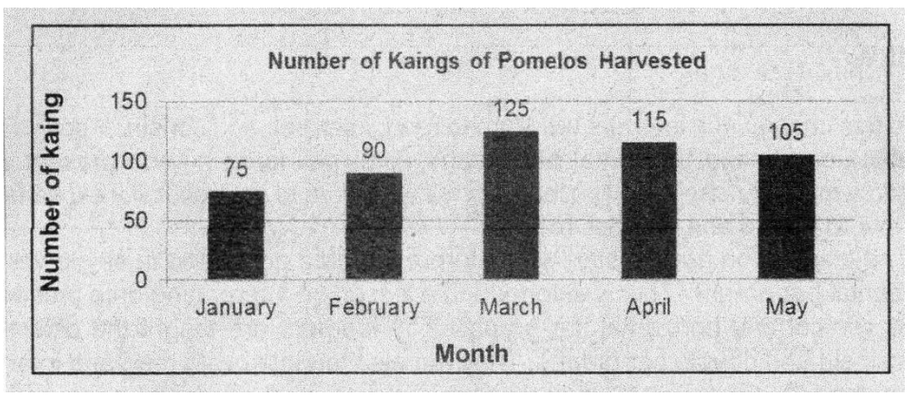
Volume: _____

30.



Volume: _____

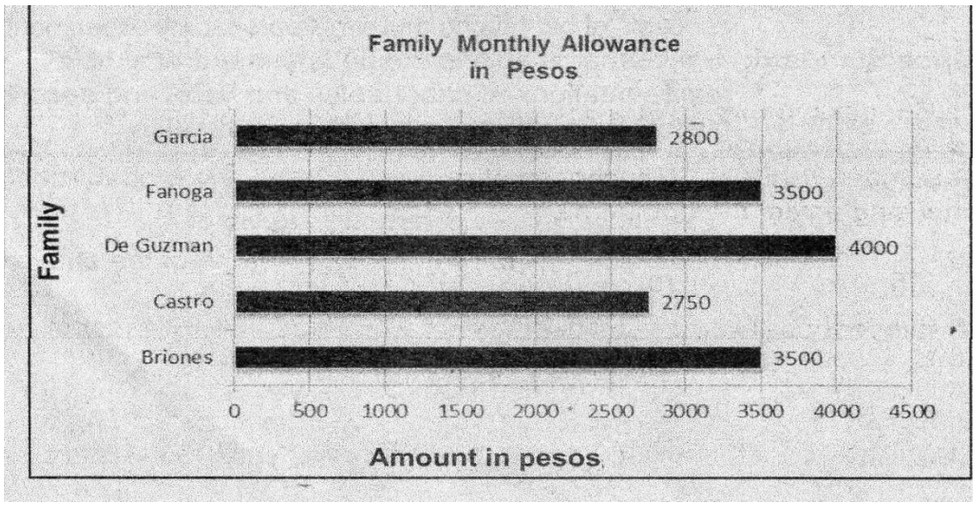
V .Study the graphs. Write the letter of your chosen answer on your answer sheet.



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31. What month registers the least number of kaing of pomelos harvested?
    a. April
    b. February
    c. January
    d. March
32. What month registers the most number of kaing of pomelos harvested?
    a. May
    b. March
    c. January
    d. February
33. How many more kaing are harvested in February and April than in January and March?
    a. 5
    b. 7
    c. 9
    d. 11
34. What is the total number of kaing of pomelos harvested?
    a. 500
    b. 505
    c. 510
    d. 515
35. What is the average number of kaing of pomelos harvested?
    a. 110
    c. 105

b. 108 d. 102

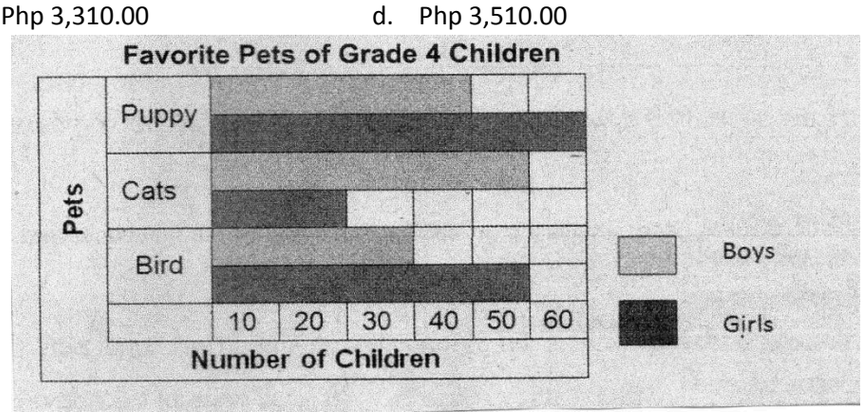


36. Which family has the lowest monthly allowance?
a. Fanoga c. Castro
b. De Guzman d. Briones

37. Which family has the biggest monthly allowance?
a. Castro c. Fanoga
b. De Guzman d. Garcia

38. What is the total monthly allowance of the families?
a. Php 16,550.00 c. Php 16,450.00
b. Php 16,500.00 d. Php 16,000.00

39. What is the average monthly allowance of the families?
a. Php 3,210.00 c. Php 3,410.00
b. Php 3,310.00 d. Php 3,510.00



40. How many children have puppies for their pet?
a. 60 b. 70 c. 90 d. 100

41. How many more boys than girls have cats ?
a. 10 b. 20 c. 30 d. 40

VI. Read each problem on probability. Encircle the letter of your chosen answer.

42. Which of the following is a probability experiment?
a. Tossing a coin b. Rolling a single 6-sided die c. Choosing a marble from a jar d. All of the above

43. A number from 1 to 10 is chosen at random. What is the probability of choosing any of the numbers?
a. $\frac{1}{10}$ b. $\frac{5}{10}$ c. $\frac{6}{10}$ d. none of the above

44. What is the probability of choosing an A from a set of 5 cards lettered A,B,C,O,U ?
a. $\frac{1}{4}$ b. $\frac{1}{5}$ c. $\frac{5}{5}$ d. none of the above

45. A spinner has a number 1 to 6. If it is spun once,

What is the probability of getting 5?

a. $\frac{1}{6}$ b. $\frac{5}{6}$ c. $\frac{0}{6}$ d. $\frac{6}{6}$

46. If a coin is tossed, what is the probability that a head will come out?

a. 1 b. 0 c. $\frac{1}{2}$ d. none of the above

47. It is the extent to which an event is likely to happen.

a. event b. probability c. likelihood d. none of the above

VI. Construct a vertical bar graph with the given data in the table below. (48-50)

Test Scores in Math	
Number of Students	Scores
A	90
B	85
C	80
D	70

FOURTH PERIODIC TEST IN MATHEMATICS IV(TOS)

Content	No. of Days Taught	Percent %	No. of Items	Item Placement
1. Visualizes the volume of solid figures in different situations using non-standard and standard units	4	12.5%	5	1-5
2. Finds the volume of a rectangular prisms using cu.cm and cu.m	4	12.5%	5	6-10
3. Solves routine and non-routine problems involving squares,rectangles,triangles,parallelograms and trapezoids	4	12.5%	5	11-15
4. Solves routine and non-routine problems involving the volume of a rectangular prism	3	7.5%	3	16-18
5. Creates problems involving volume of rectangular prism	4	5%	2	19-20
6. Finds the area of triangles, parallelograms and trapezoids using sq cm and sq m	5	7.5%	3	21-23
7. Collects data on two variables using any source	5	5%	2	24-25
8. Interprets data presented in different kinds of bar graphs	5	17.5%	7	26-32
9. Solves routine and non-routine problems using data presented in a single or double bar graph.	5	5%	2	33-34
10. Records favourable outcomes in a simple experiment (e.g. tossing a coin,spinning a wheel , etc)	5	15%	6	35-40
TOTAL	45	100	40	40

TABLE OF SPECIFICATION

FOURTH PERIODIC TEST IN MATHEMATICS IV

Content	No. of Days Taught	Percent %	No. of Items	Item Placement
11. Visualizes the volume of solid figures in different situations using non-standard and standard units	4	10%	5	1-5
12. Finds the volume of a rectangular prisms using cu.cm and cu.m	4	10%	5	6-10
13. Solves routine and non-routine problems involving area parallelograms	4	10%	5	11-15
14. Solves routine and non-routine problems involving the area of a rectangular prism	4	10%	5	16-20
15. Solves routine and non-routine problems involving the area of trapezoids	4	10%	5	21-25
16. Find the volume of a rectangular prism	5	10%	3	26-30
17. Collects data on two variables using any source	5	4%	2	31-32
18. Interprets data presented in different kinds of bar graphs	5	14%	7	33-39
19. Solves routine and non-routine problems using data presented in a single or double bar graph.	5	4%	2	40-41
20. Records favourable outcomes in a simple experiment (e.g. tossing a coin, spinning a wheel , etc)	5	12%	6	42-47
21. Construct single vertical bar graphs	5	6%	3	48-50

TOTAL	50	100	50	50

MATH 4TH PERIODIC TEST KEY TO CORRECTION

1. T
2. T
3. F
4. T
5. T
6. T
7. F
8. T
9. F
10. F
11. The area of a parallelogram
12. 300 m long, 120 m height
13. A = B x H
14. 300 m x 120m = 36, 000 m
15. 36, 000 m is the area of parallelogram
16. The area of the triangular pond
17. Base of 10 meters and a height of 6 meters
18. $A = \frac{B \times H}{2}$
19. 10 x 6 = 60 ÷2 = 30 m^2
20. 30m^2
21. Area of the garden
22. 8 meters for base 1, 6 meters for base 2 and 7 meters for height
23. $A = \frac{(B_1 + B_2)\, H}{2}$
24. $\frac{(8 + 6)\, 7}{2} = \frac{14 \times 7}{2} = \frac{98}{2} = 49\ m^2$
25. 49 m^2
26. 216 cm^3
27. 2 250 cm^3
28. 96cm^3
29. 480cm^3
30. 420cm^3
31. C
32. B
33. A
34. C
35. D
36. C
37. B
38. A
39. B
40. C
41. B
42. D
43. A
44. B
45. A
47. C
48.
49.
50.