



Republic of the Philippines
Department of Education
REGION II – CAGAYAN VALLEY
SCHOOLS DIVISION OFFICE OF CAGAYAN
PAMPLONA DISTRICT

PRETEST-POSTTEST IN MATHEMATICS VI
THIRD GRADING PERIOD

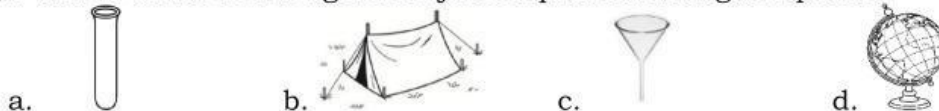
Name: _____ Score: _____ Parent's Signature: _____

Direction: Read and analyze each question. Write the letter of your answer on the space provided before each number.

_____ 1. Which is a net of a cube?



_____ 2. Which of the following real objects represent triangular prism?



_____ 3. Which words will complete the statement correctly?

- _____ figure is two-dimensional with length and width while
_____ figure is three-dimensional with length, width and depth.
- a. geometric, spatial c. solid, plane
b. plane, solid d. solid, spatial

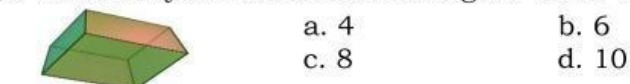
_____ 4. Which of the following is a closed, two-dimensional or flat figure?

- a. Prism b. Pyramid c. Rectangle d. Cube

_____ 5. Which of the following 3-D shapes have no vertices or edges?



_____ 6. How many flat faces does the figure below have?



_____ 7. What formula is derived in finding the sequence 4, 12, 20, 28, 36?

- a. $n + 8 - 4$ b. $8 \times n + 4$ c. $8n - 4$ d. $4 + 8$

_____ 8. What is the rule in this number sequence 2, 8, 26, 80, 242?

- a. $x3 + 2$ b. $+6$ c. $+2, \times 4$ d. $+6 \times 2$

_____ 9. What will be the 100th term for the sequence 5, 11, 17, 23, 29.....?

- a. 599 b. 600 c. 400 d. 499

- _____ 10. Which of the following defines an EQUATION?
- A combination of expressions
 - Any numerical value that gives a true statement
 - An algebraic expression containing a variable or variables.
 - Formed by placing an equality symbol between the numerical expression
- _____ 11. What is an expression?
- A mathematical phrase made up of a variable or combination of variable, numbers and operation
 - Formed by placing an equality symbol between the numerical or variable expressions
 - Any numerical or mathematical phrase with equal symbol.
 - An algebraic expression containing a variable
- _____ 12. Which of the following is an equation?
- $10 + 9$
 - $0.5 + 0.2 = 0.4 + 0.3$
 - $25 \times 5 + 6$
 - $(8 + 9) \times 15$
- _____ 13. Translate twelve more than thrice a number to an algebraic expression.
- $3n + 12$
 - $3 + 12$
 - $12 + 3$
 - $12 \times 3n$
- _____ 14. Express this statement into algebraic expression: Twice Mako's age, increased by 5 is 17.
- $2m + 5 = 17$
 - $2m - 5 = 17$
 - $17 = 2 + 5$
 - $2m + 5 - 17$
- _____ 15. Mrs. Quinay buys 10 oranges for ₱15.00 each and 12 apples for ₱ 20.00 each. She gives the cashier ₱500.00 bill. Write an equation for the amount of change the cashier should give to her.
- $500 - (10m + 12n) = p$
 - $(10m + 12n) - 500 = p$
 - $500 + 10m + 12n = p$
 - $500 - (10m - 12n) = p$
- _____ 16. Choose the correct word problem that you can create that can be solved the equation: $45 + n = 80$.
- There were 80 kids in the party. 45 ate cake. The rest ate ice cream. How many kids ate cake?
 - There were 80 kids in the party. 45 ate ice cream. The rest ate cake. How many kids ate ice cream?
 - There were 80 kids in the party. 45 ate cake. The rest ate ice cream. How many kids ate ice cream?
 - There were 80 kids in the party. 45 ate ice cream. The rest ate cake. How many kids were there in all?
- _____ 17. In the algebraic expression $4x + 3y + 2z$, which are the variables?
- $4x + 3y + 2z$
 - $4x, 3y, 2z$
 - 4, 3, 2
 - x, y, z
- _____ 18. Translate $x - 3y$ into mathematical statement
- thrice y minus x
 - three times y less than x
 - thrice y increased by x
 - x diminished by thrice y
- _____ 19. Find the value of n in an algebraic expression $8n \times 5 = 120$.
- 2
 - 3
 - 4
 - 5
- _____ 20. Solve for x : $5x + 15 = 75$
- 10
 - 11
 - 12
 - 13

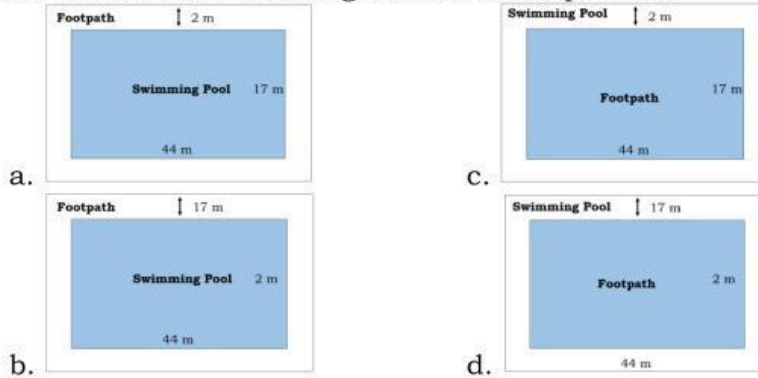
- _____ 21. What is the value of x in the equation $5x - 2 = 3x + 4$?
 a. 2 b. 3 c. 4 d. 5
- _____ 22. Helen is 13 years old, Helen's father is 4 years more than twice her age. How old is her father?
 a. 17 b. 26 c. 30 d. 52
- _____ 23. Edna is 155 cm tall. Lilia's height is 10 cm less than twice Edna's height. How tall is Lilia?
 a. 280 cm b. 290 cm c. 300 cm d. 310 cm
- _____ 24. What speed covers 540 kilometers in 6 hours?
 a. 80 kph b. 70 kph c. 90 kph d. 60 kph
- _____ 25. At 90 kph, how far do you travel in 3 hours?
 a. 270 km b. 180 km c. 90 km d. 300 km
- _____ 26. The bus travels 450 km in 9 hours. What is the speed of the bus?
 a. 50 km/hr. b. 60 km/hr. c. 70 km/hr. d. 80 km/hr.
- _____ 27. Dennis drove his car at an average speed of 80 km per hour for a total distance of 440 km. How long did he travel to cover this distance?
 a. 0.18 hr. b. 0.5 hr. c. 5.5 hr. d. 10 hr.
- _____ 28. The distance of the school from your house is 240 meters. It takes 80 minutes by walking to reach the school. What should be your average speed?
 a. 2 m/min b. 3 m/min c. 4 m/min d. 6 m/min
- _____ 29. What is the formula in finding the area of a rectangle.
 a. length + width c. length x width
 b. length - width d. length ÷ width
- _____ 30. To find the area of a square _____ the side by itself.
 a. add b. multiply c. divide d. subtract

For items 31-35, refer to the word problem below:

A swimming pool, 44 meters long and 17 meters wide has a footpath of 2 meters surrounding it. What is the total area of the footpath?

- _____ 31. What is asked in the problem?
 a. The total area of the footpath
 b. The total area of the surrounding of the swimming pool
 c. The total area of the swimming pool
 d. The total area of the pool and footpath
- _____ 32. What are the given clues needed to solve the problem?
 a. measurement of the pool 44 meters x 2 meters, and footpath, 17 meters
 b. measurement of the pool 2 meters x 17 meters, and footpath, 44 meters
 c. measurement of the pool 44 meters x 17 meters, and footpath of 2 meters
 d. measurement of the footpath 44 meters x 2 meters, and pool, 17 meters

33. Which of the following illustrates the problem?



34. What steps should you do to solve for the problem?

- Add the area of the pool with footpath to the area of the pool
- Subtract the area of the pool with footpath to the area of the pool
- Multiply the area of the pool with footpath to the area of the pool
- Divide the area of the pool with footpath to the area of the pool

35. What is the total area of the footpath?

- 748m²
- 1008m²
- 260m²
- 4m²

36. The sum of areas of all faces of a solid figure is called _____

- circumference
- surface area
- perimeter
- volume

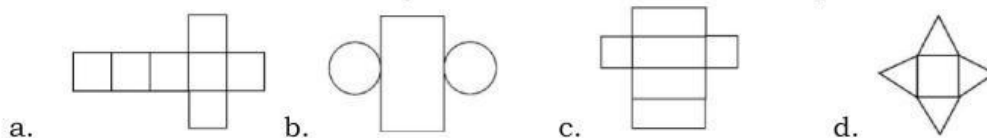
37. The unit for surface area is _____.

- cubic unit
- square unit
- linear unit
- weight unit

38. The faces of a cube are _____.

- circles
- squares
- rectangles
- triangles

39. Which one of the following shows the surface area of a cylinder?



40. The curved surface of a cylinder when unrolled and flattened becomes ____.

- circle
- trapezoid
- rectangle
- triangle

41. What formula is to be used in solving the surface area of a sphere?

- $4\pi r^2$
- $4\pi rh$
- $\pi rs + \pi r^2$
- $2\pi rh + 2\pi r^2$

42. To compute for the surface area of a cube, which formula is the appropriate to use?

- $6lw$
- $6lw^2$
- $6s$
- $6s^2$

43. To find the surface area of cone, what formula is to be used?

- $2\pi rh$
- $4\pi r^2$
- $\pi rs + \pi r^2$
- $2\pi rh + 2\pi r^2$

44. You want to measure the surface area of a classroom. Which is the best unit of measure for it?

- cm²
- mm²
- m²
- dm²

45. A closed rectangular water tank 10 m by 7 m by 6 m is to be painted all over. What is the correct formula that will you use to solve the problem?

a. $SA = 6(l \times w \times h)$

b. $SA = l \times w \times h$

c. $SA = 2lw \times 2wh \times 2lh$

d. $SA = l + w + h$

____ 46. Lei has a sewing box which is 30 cm by 20 cm by 15 cm. She wants to cover it completely with silk cloth. What is the area she has to cover?

a. 2500 cm^2

b. 2550 cm^2

c. 2600 cm^2

d. 2700 cm^2

____ 47. A plastic beach ball has a diameter of 16 cm. What is its surface area? a. 803 cm^2

b. 803.84 cm^2

c. 805.84 cm^2

d. 806.84 cm^2

____ 48. A milk can has a radius of 4 cm and a height of 11 cm. How much tin was used in making it?

a. 125.6 cm^2

b. 267.23 cm^2

c. 276.32 cm^2

d. 376.8 cm^2

____ 49. How much gift wrapper is needed to wrap a box whose edge is 25cm?

a. $3\,570 \text{ cm}^2$

b. $3\,705 \text{ cm}^2$

c. $3\,750 \text{ cm}^2$

d. $3\,755 \text{ cm}^2$

____ 50. A ball made of rubber has a radius of 15 cm. What is the area of the rubber material of which it is made?

a. $2\,268 \text{ cm}^2$

b. $2\,286 \text{ cm}^2$

c. $2\,628 \text{ cm}^2$

d. $2\,826 \text{ cm}^2$