

Department of Education  
Region IV-A CALABARZON  
Division of Tanauan City  
District of Tanauan City West  
**BILOGBILOG ELEMENTARY SCHOOL**  
Bilogbilog, Tanauan City



**FOURTH QUARTERLY ASSESSMENT IN MATHEMATICS 6**

**S.Y.** \_\_\_\_\_

Name: \_\_\_\_\_

Score: \_\_\_\_\_

Grade: \_\_\_\_\_

Date: \_\_\_\_\_

Parent's Signature \_\_\_\_\_

**I. Multiple Choices.** *Encircle the letter of the correct answer.*

- Queen Haydee would like to conduct an experiment about the relationship of a rectangular prism and a pyramid. She has a rectangular box and pyramids with the same base and height. How many pyramids of popcorn can she fill the rectangular box?  

|                         |                         |
|-------------------------|-------------------------|
| A. 1 pyramid of popcorn | C. 3 pyramid of popcorn |
| B. 2 pyramid of popcorn | D. 4 pyramid of popcorn |
- Grade Six Compassion would like to conduct an activity about the relationship between a cylinder and a cone. They use a cylinder which is open at one end and a cone that is open at the base. Both of them have congruent bases and altitude. They fill the cone with sand. Their teacher asked them to guess how many cone full of sand they can fill in the cylinder. If you are the Grade Six - Compassion, how many cone full of sand can you fill the given cylinder?  

|                         |                         |
|-------------------------|-------------------------|
| A. 1 cone full of sand  | C. 3 cones full of sand |
| B. 2 cones full of sand | D. 4 cones full of sand |
- To find the relationship between a sphere and a cylinder, Grade Six pupils of Mrs Maralit will do an activity. After the activity, pupils found out that the sphere did not fill the whole cylinder. What is the volume of the sphere in relation to a cylinder?  

|                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| A. Sphere is $\frac{1}{3}$ of the volume of the cylinder. | C. Sphere is $\frac{3}{3}$ of the volume of the cylinder. |
| B. Sphere is $\frac{2}{3}$ of the volume of the cylinder. | D. Sphere is $\frac{4}{3}$ of the volume of the cylinder. |
- Which is the correct formula in finding the volume of a cylinder?  

|                              |                              |
|------------------------------|------------------------------|
| A. $V = \frac{\pi r^2 h}{3}$ | C. $V = \frac{4}{3} \pi r^3$ |
| B. $V = \pi r^2 h$           | D. $V = l \times w \times h$ |
- Xavier will solve the volume of a cone. Which formula will she use to arrive at a correct answer?  

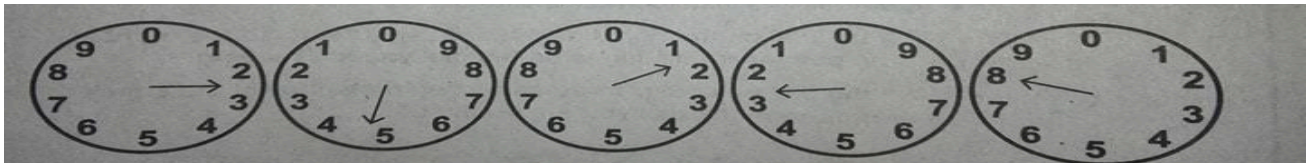
|                              |                              |                    |                              |
|------------------------------|------------------------------|--------------------|------------------------------|
| A. $V = \frac{\pi r^2 h}{3}$ | B. $V = \frac{4}{3} \pi r^3$ | C. $V = \pi r^2 h$ | D. $V = l \times w \times h$ |
|------------------------------|------------------------------|--------------------|------------------------------|
- Irish has an assignment in Mathematics 6. She found difficulty in solving the volume of a sphere because she doesn't know the correct formula. How could you help Irish to solve her problem?  

|                                                                   |                                                                   |
|-------------------------------------------------------------------|-------------------------------------------------------------------|
| A. Tell her that the correct formula is $V = \frac{\pi r^2 h}{3}$ | C. Tell her that the correct formula is $V = \frac{4}{3} \pi r^3$ |
| B. Tell her that the correct formula is $V = \pi r^2 h$           | D. Tell her that the correct formula is $V = l \times w \times h$ |
- Volume is equal to base times height where in base is length times width. This formula is appropriate in finding the volume of what spatial figure?  

|             |                      |
|-------------|----------------------|
| A. Pyramid  | C. Sphere            |
| B. Cylinder | D. Rectangular Prism |

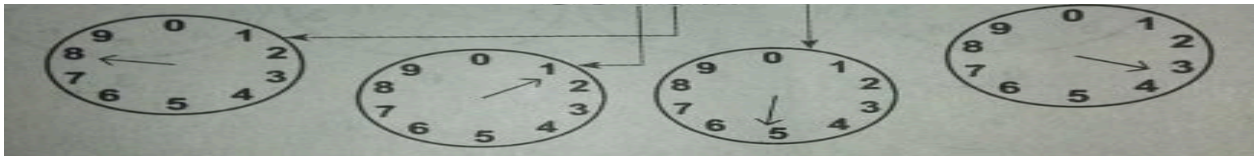


20. Jenny would like to read the electric meter below. If you were Jenny, which letter will you choose for the correct reading?



- A. 24128                      B. 35239                      C. 25128                      D. 35128

21. What is the reading of this water meter?



- A. 8153                      B. 9154                      C. 8154                      D. 3518

22. The previous water reading at Maralit’s residence was 3475 m³, the following month the reading was 4658 m³. How much water was consumed in one month?

- A. 1,183 m³                      B. 1,283 m³                      C. 2,183 m³                      D. 2,283 m³

23. The electric meter reading last month was 7,621 kwh. The present reading is 8,347 kwh. Create a problem out of these given.

The Math Club of Bilogbilog Elementary School elected their officers. There are five candidates for president and members voted. This is how the members voted.

|        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| Aldous | Joven  | Aldous | Iolie  | Ivan   | Joven  |
| Iolie  | Ivan   | Joven  | Aldous | Aldous | Iolie  |
| Joven  | Aldous | Aldous | Iolie  | Joven  | Cyrus  |
| Aldous | Cyrus  | Joven  | Aldous | Ivan   | Joven  |
| Aldous | Aldous | Joven  | Iolie  | Cyrus  | Aldous |
| Joven  | Iolie  | Aldous | Aldous | Joven  | Aldous |

*\*Complete the table. Then be able to answer the questions after by encircling the letter of the correct answer.*

| Candidates for President | Tally | Frequency |
|--------------------------|-------|-----------|
| Aldous                   |       |           |
| Iolie                    |       |           |
| Joven                    |       |           |
| Ivan                     |       |           |
| Cyrus                    |       |           |

24. Who won in the election?

- A. Aldous                      B. Iolie                      C. Joven                      D. Ivan

25. How many votes obtained by Iolie?

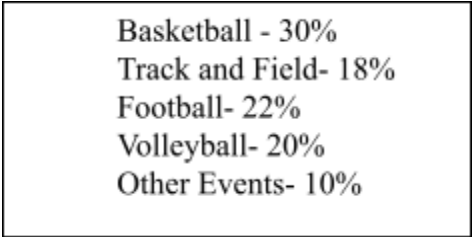
- A. 4 votes                      B. 5 votes                      C. 6 votes                      D. 7 votes

26. Which is the correct frequency obtained by Joven?

- A. 10 votes                      C. 5votes                      C. 4 votes                      D. 3 votes

27-29. Using the illustration below construct a pie graph of your favorite subject in Grade six from the most to the least of your favourite.

30-32. Here are the data of Grade Six favorite games to play. Be able to interpret data presented using a pie graph.



33. Jasper, a grade five pupil of Mrs. Sara did the survey in grade six about their favorite games to play. If the total number of grade six is 250, how many exact pupils chose volleyball?  
A. 40 pupils                      B. 45 pupils                      C.50 pupils                      D. 55 pupils

34. How about the number of pupils who chose basketball?  
A. 75 pupils                      B. 80 pupils                      C. 85 pupils                      D. 90 pupils

35-38. Create a word problem that can be answered using this pie graph. Then be able to write the correct answer for your created problem. At least 3 questions to answer.

39. What do you mean by one in a million chance of winning?  
A. unlikely to happen                      C. Certain to happen  
B. impossible to happen                      D. Likely to happen

40. When the newscaster said that there is 50% chance of rain, what did she mean?  
A. impossible                      C. as likely as unlikely  
B. unlikely                      D. likely

41. Which of the following quantities mean most likely to happen?  
A. 0%                      B. 25%                      C. 50%                      D. 75%

42. 2 people in a group of 15 will have the same birthday. It is an example of most unlikely. Why?  
A. 0%                      B. 25%                      C. 50%                      D. 100%

**(43- 44) Choose the correct answer on the probability /chances of drawing:**

A bag has 1 blue, 3 green, 2 red, and 2 yellow marbles. Find the probability of drawing:

43. 1 blue marble      A.  $\frac{1}{8} \frac{1}{8}$                       B.  $\frac{1}{4} \frac{1}{4}$                       C.  $\frac{1}{7} \frac{1}{7}$                       D. 1
44. 3 green marbles      A.  $\frac{1}{8} \frac{1}{8}$                       B.  $\frac{3}{8} \frac{3}{8}$                       C.  $\frac{1}{5} \frac{1}{5}$                       D. 3
45. There are 5 red balls and 6 blue balls in a jar. What is the probability of picking a red ball?  
A. 40%                      B. 45%                      C. 50%                      D. 55%

46. A spinner has 5 sectors namely; red, blue, orange, yellow, and black. If you spin once, what is the probability that the spinner will land on color white?  
A. 0%                      B. 25%                      C. 50%                      D. 75%

47. You ask a friend to think of a number from three to ten. What is the probability that his number will be 6?  
A. 1/8                      B. 2/8                      C. 3/8                      D.4/8

48. A bag contains 12 red marbles, 8 blue marbles, and 4 yellow marbles. Find the theoretical probability of getting a blue marble.

A.  $\frac{3}{3}$

B.  $\frac{2}{3}$

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

D.  $\frac{3}{4}$

49. A medical study tests a new medicine on 4800 participants. It is effective for 4200 participants Find the experimental probability that the medicine is effective.

A. 78.5%

B. 87.5%

C. 97.5%

D. 98.5%

50. Create a problem out of the following sentences.

A drawer contains 6 black socks and 4 white socks.

Two socks are drawn at random

One after the other

Without replacement

Find the probability of drawing two black socks in a row.

Key to Correction

FOURTH QUARTERLY EXAMINATION IN MATHEMATICS VI

|       |       |
|-------|-------|
| 1. C  | 26. A |
| 2. C  | 27.   |
| 3. C  | 28.   |
| 4. B  | 29.   |
| 5. A  | 30.   |
| 6. C  | 31.   |
| 7. D  | 32.   |
| 8. A  | 33. C |
| 9. B  | 34. A |
| 10. C | 35.   |
| 11. A | 36.   |
| 12. D | 37.   |
| 13. A | 38.   |
| 14. D | 39. A |
| 15. C | 40. C |
| 16.   | 41. D |
| 17.   | 42. B |
| 18.   | 43.   |
| 19. B | 44.   |
| 20. A | 45. B |
| 21. D | 46. A |
| 22. A | 47. A |
| 23.   | 48. C |
| 24. A | 49. B |
| 25. C | 50.   |



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# FOURTH QUARTERLY TEST IN MATHEMATICS 6

S. Y. \_\_\_\_\_

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