Republic of the Philippines

Department of Education

National Capital Region

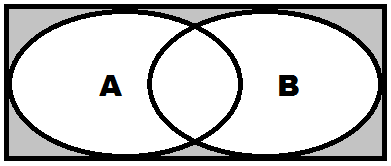
**DIVISION OF CITY SCHOOLS**

Quezon City, Metro Manila

**FIRST PERIODICAL TEST**

**Grade VII – Mathematics**

**SY 2014 – 2015**

1. **DIRECTIONS**: Read the questions carefully. Write the letter that corresponds to your answer.
2. Which set notation represents the shaded region in the given Venn diagram?
3. A B B. A ∩ B C.(A B)’ D. (A ∩ B)’
4. What do we call the members or objects in a given set?
5. cardinality B.elements C. subsets D. intersection
6. Which of the following is an irrational number?
7. 1.414213… C. 3.141529…
8. 2.353553… D. Allof them

4. Given a set of integers x such that { x, where ‒100 < x < 100} what is the largest negative integer?

A. -100 B. -1,000,000 C. ‒99 D. ‒1

5. What is the sum of a number and its opposite?

1. -1 B. 0 C. a negative number D. the number itself

6. Which of the following rules is true about subtraction of integers?

1. Change the sign of the minuend.
2. Keep the sign of the subtrahend.
3. Change the sign of the subtrahend.
4. Change the operation from subtraction to division.

7. What is the multiplicative inverse of ?

1. B. C. D.

8. Which of the following has the digit 5 in the hundredths place?

1. 3.257 B. 6.513 C. 36.345 D. 597. 62

9. A certain set has 64 subsets. How many elements are there in that set?

1. 3 B. 4 C. 5 D. 6

10. Which of the following statements is **NOT** true?

1. All whole numbers are integers.
2. All integers are rational numbers.
3. All fractions are rational numbers.
4. All decimals are rational numbers.

11. Which of the following set of integers is arranged in ascending order?

1. -55, 54, -4, 15, 24 C. 24, 15, -4, 54, -55
2. 54, 24, 15, -4, -55 D. -55, -4, 15, 24, 54

For numbers 12 – 14, refer to the following situation and Venn-diagram:

A group of Grade 7 students were interviewed about the vegetables they like.

**A**

**M**

18

8

11

19

2

3

13

**O**

6

12. How many students like Okra ( O ) only?

1. 18 B. 13 C. 8 D. 5

13. How many students like Malunggay (M) or Ampalaya (A)?

1. 61 B. 35 C. 30 D. 11

14. How many students like Malunggay or Ampalaya but not Okra?

1. 8 B. 11 C. 18 D. 19

15. Add : – 87, 38 and 49. What is the sign of their sum?

A. negative C. positive

B. either positive or negative D. neither positive nor negative

16. What number must be subtracted by 16 to obtain – 18?

1. 34 B. – 34 C. 2 D. – 2

17. What integer is 45 less than – 73?

A. -118 B. -28 C. 28 D. 118

18. What must be multiplied by – 8 to obtain 96?

1. 88 B. 12 C. -12 D. -88

19. Simplify – 25 ÷ (-2)2.

A. 8 B. 6 C. -6 D. -8

20. 92.078 is 3.456 less than what decimal number?

A. 95.534 B. 95.424 C. 88.622 D. 88.422

21. If *n* is an integer and  < *n* < , how many such integers are there?

A. 13 B. 14 C. 15 D. 16

22. How many 25 centavos are there in ₱18.75?

A. 75 B. 74 C. 73 D. 72

23. What is the fraction form of 1.030303…..

A.  B.  C.  D. 

**For numbers 24 – 26, refer to the given problem below:**

In a class of 35 students, each student plays at least one sports. Twenty students play basketball

and 18 play volleyball.

24. How many students play basketball only?

25. How many students play volleyball only?

26. How many students play both basketball and volleyball?

**For numbers 27 – 28, refer to the given problem below:**

Flor ordered online, three books at Php 125.50 each and four CD’s at Php 350.25 each.

The shipping fee for the entire order was Php 250.

27. How much did she pay for the books and CD’s that she ordered?

28. How much did she pay in all?

**For numbers 29 – 30, refer to the given problem below:**

Henry donated of his allowance for the month of June to the typhoon victims. His monthly allowance is Php 5850.

29. How much did he donate to the typhoon victims?

30. How much is left in his June allowance?

**For numbers 31 – 33, refer to the given problem below:**

A gasoline tank of a car is 5 / 8 full. After using 18 liters, it was only 2 / 5 full.

31. What is the full capacity of the tank?

32. What is the original gasoline content of the car?

33. After using 18 liters, how many liters are left in the tank?

**For numbers 34 – 35, refer to the given problem below:**

Mike wishes to cut as many pieces of rope of equal length as he can from 3 strands that are

48 dm, 60 dm and 72 dm long. If he wishes the pieces to be as long as possible and does not

wish to waste any rope,

34. how long should he cut each piece?

35. how many pieces of ropes of equal length can he cut?

**‒ E N D ‒**