Republic of the Philippines

Department of Education

National Capital Region

**DIVISION OF CITY SCHOOLS**

Quezon City, Metro Manila

**FIRST PERIODICAL TEST**

**Grade VII Math – SY 2013 – 2014**

**NAME** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Year & Section \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Score \_\_\_\_\_\_\_\_\_\_\_

DIRECTIONS: Choose the letter corresponding to the correct answer.

\_\_\_1. Which of the following is a whole number but not a counting number?

A. 0 B. 1 C. –1 D. 1 / 2

\_\_\_2. Which of the following is arranged in ascending order?

A. –36, –32, –5, 14, 41 C. 41, 14, –5, – 32, –36

B. –5, –32 –36, 14 41 D. –32, –36, 24, 14, –5

\_\_\_3. Which of the following decimal number has the digit 7 in hundredths place?

A. 5.397 B. 5.978 C. 15.7034 D. 735.456

\_\_\_4. If *n* is an integer and  < *n* < , how many such integers are there?

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

\_\_\_5. What must be subtracted by – 21 to obtain 12?

A. 9 B. –9 C. 33 D. –33

\_\_\_6. Which of the following fractions is the biggest?

A.  B.  C.  D. 

\_\_\_7. What remains when  is subtracted from 1 whole?

A.  B.  C.  D. 

\_\_\_8. Simplify: 18 – 6 ÷ (–3). A. –4 B. 4 C. 20 D. 16

\_\_\_9. How many 25 centavos are there in ₱18.75?

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

\_\_\_10. What is the fraction form of 1.030303…..

A.  B.  C.  D. 

\_\_\_11. Which of the following fractions are arranged in ascending order?

A. ,     B.  , , , ,

C.  , , , , D.  , , , , ,

\_\_\_12. What must be subtracted by  to obtain  ?

A.  B.  C.  D. 

\_\_\_13. How many books 3.8 cm thick can be placed in a shelf 250 cm long?

A. 63 B. 64 C. 65 D. 66

\_\_\_14. How long ago was 375 B.C.? A. 1638 B. 1538 C. 2388 D. 2488

\_\_\_15. How many watermelons ₱ 75 each can Mikee buy with ₱1000 ?

A. 14 B. 13 C. 12 D. 11

\_\_\_16. If each liter of gasoline costs ₱ 42.65, how much will 4.2 liters cost to the nearest

centavo? A. ₱ 179.90 B. ₱ 179.30 C. ₱ 179.10 D. ₱ 179.50

\_\_\_17. How many steps 3 3/4 dm long are needed to cover a 200 dm distance completely?

A. 52 B. 53 C. 54 D. 55

\_\_\_18. Between which two consecutive integers does  lie?

A. 16 and 17 B . 15 and 16 C. 14 and 13 D. 13 and 12

\_\_\_19. Given U = {whole numbers less than 12}, set A = {prime numbers less than 10}, which of the

following are the elements of A complement?

A. A’ = {1, 4, 6, 8, 9, 10, 11} C. A’ = {0, 1, 4, 6, 8, 9, 10, 11, 12}

B. A’ = {0, 1, 4, 6, 8, 9, 10, 11, 12} D. A’ = {0, 1, 4, 6, 8, 9, 10, 11}

\_\_\_20. 87.098 is 15.23 more than what decimal number?

A. 71.868 B. 102.328 C. 71.688 D. 102.238

\_\_\_21. Simplify: (–3)3 – (–2)3. A. – 35 B. 35 C. 19 D. –19

\_\_\_22. What integer is 19 less than –74? A. 93 B. 55 C. –93 D. –55

\_\_\_23. What is the next number in the series 4, 8, 15, 25, 38, \_\_ ?

A. 44 B. 54 C. 64 D. 74

\_\_\_24. What is the smallest positive integer by which 108 can be multiplied to make it a perfect

square number? A. 2 B. 3 C. 5 D. 6

\_\_\_25. How many twelfths are there in 15? A.120 B. 140 C. 160 D. 180

\_\_\_26. A rope 72 meters long is to be divided into three pieces in the ratio 2 : 3 : 4. How long

is the longest piece? A. 32m B. 24m C. 18 m D. 16 m

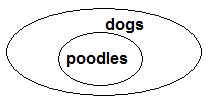
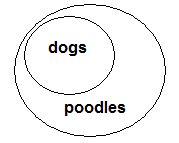
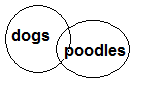
\_\_\_27. What is the GCF of 12, 18 and 24? A. 6 B. 3 C. 8 D. 12

\_\_\_28. Evaluate: (–1)100 – 199. A. –2 B. –1 C. 0 D. 1

\_\_\_29. Set A = {letters of the word algebra}, B = {vowels of the English alphabet}, find AB.

A. {a, e, b} B. {a, t, e} C. {a, e, a} D. {a, e}

\_\_\_30. Which diagram illustrates the statement: “All poodles are dogs.”

 A. B. C. D.

For numbers 31 – 33: S and M are points along a line.

\_\_\_31. If S is at –39 and M at 25, how long is SM?

A. 14 B. –14 C. 64 D. – 64

\_\_\_32. If point A is between S and M, such that SA : AM = 3 : 5, what is the coordinate of A?

A. –15 B. –12 C. 8 D. 18

\_\_\_33. If B is 39 units left of M, what is the coordinate of B?

A. 64 B. –64 C. 14 D. –14

\_\_\_34. Which of the following statements is/are true?

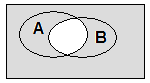
i. The set of whole numbers is a subset of the set of counting numbers.

ii. The set of whole numbers is a subset of the set of integers.

iii. The set of rational numbers is a subset of the set of real numbers.

iv. All signed numbers are integers.

A. ii and iii B. ii, iii and iv C. iv only D. all of the above

\_\_\_35. Which set notation represents the shaded portion in the given figure?

A. A  B B. A  B C. (A B)’ D. (A B)’

\_\_\_36. Melvin receives a monthly salary of ₱12000. He spends 1/3 of it on

house rental, 1/4 of it on bills, and 30% on food. How much money

does he have left for his leisure activities?

A. ₱ 1200 B. ₱ 1400 C. ₱ 2400 D. ₱ 2100

\_\_\_37. Two numbers are in a ratio 5 : 8. If the sum of the two numbers is 156, what is the bigger

number? A. 60 B. 72 C. 86 D. 96

\_\_\_38. A pizza was divided into 2 parts in a ratio 3 : 5. The smaller part was then divided in the

ratio 2 : 3. If the smaller of the two latter pieces weighed 60 grams, what is the weight

of the whole pizza?

A. 250 grams B. 300 grams C. 400 grams D. 450 grams

\_\_\_39. What number is 109 more than thrice 49?

A. 147 B. 240 C. 256 D. 266

\_\_\_40. Three-fifths of 2 400 students in a certain school are girls. Of the girls, 2 / 3 are in

the elementary, the rest high school. How many are in high school ?

A. 1440 B. 480 C. 960 D. 800

\_\_\_41. How many common multiples less than 40 do 3 and 4 have?

A. 3 B. 4 C. 19 D. 22

\_\_\_42. The trip from Manila to Baguio takes about 6 1/2 hours. If Ramon has been traveling for

2 3/4 hours from Manila, about how much more time will it take to reach Baguio?

A. 3 1/2 B. 3 3/4 C. 2 1/2 D. 3 2/3

\_\_\_43. In an apartment building, 2/3 of the residents speak Cebuano, 1/4 speak Ilocano, and the

remaining 2 residents speak Chavacano. How many residents are there in the building?

A. 2 B. 12 C. 16 D. 24

\_\_\_44. A teacher announces that out of 35 students in a class, 25 passed both Math and Science

tests, 30 passed the Math test and 28 passed the Science test. How many students did not

pass either Math or Science test?

A. 1 B. 2 C. 3 D. 4

\_\_\_45. Myla sold 144 glasses of lemon juice at a constant rate over 6 hours. If she continues to sell

glasses of juice at the same rate, how many glasses will she sell in the next 45 minutes?

A. 20 B. 18 C. 16 D. 12

\_\_\_46. Starting the middle step of a ladder, a fireman goes up by 7 steps, then down by 11 steps, up

again by 6 steps, down by 7, finally up by 12 and found that he is on top of the ladder. How many

steps are there in the ladder? A. 13 B. 14 C. 15 D. 16

\_\_\_47. A gasoline tank of a car is 5 / 8 full. After using 18 liters, it was only 2 / 5 full. What is the full

capacity of the tank? A. 60 L B. 80 L C. 100 L D. 120 L

\_\_\_48. Divide 143 into three such that half of the first part, one-third of the second part and one-sixth

of the third part are equal. Find the length of the third part.

A. 78 B. 60 C. 33 D. 22

\_\_\_49. A certain grocery is giving away special prizes for its anniversary sale. Every 16 th customer

gets bag of groceries while every 24 th gets can of biscuits and every 36 th customer gets

basket of fruits. Who will be the first customer to receive all the prizes?

A. 60 th customer B. 72 nd customer C. 120 th customer D. 144 th customer

\_\_\_50. 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, how long should he cut each piece?

A. 10 dm B. 12 dm C. 15 dm D. 16 dm

- e n d -

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