

FIRST PERIODICAL TEST
GRADE 7 Mathematics

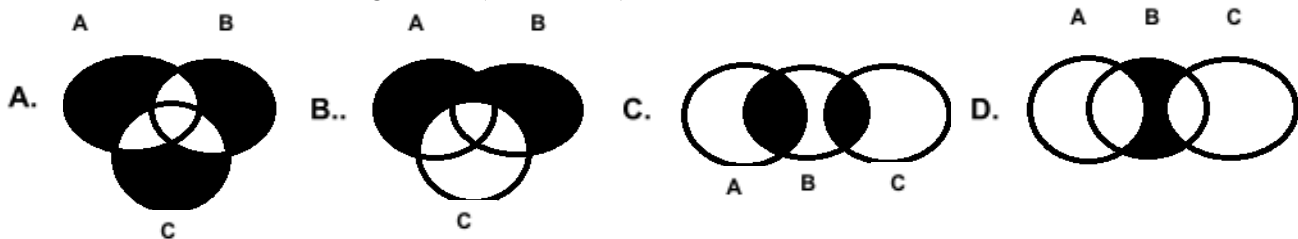
Direction: Read carefully each item and choose the letter corresponding to the correct answer.

1. Simplify: $(-2)^3 - (-3)^2$.
A. -1 B. 1 C. -17 D. 17
2. How much less is -84 than -48 ?
A. -36 B. 36 C. 132 D. -132
3. Which is the largest?
A. $\frac{5}{6}$ B. $\frac{3}{5}$ C. $\frac{5}{8}$ D. $\frac{8}{11}$
4. How much will you pay for an item which originally costs P 750 but is now on sale with 20% discount?
A. P150 B. P180 C. P600 D. P570
5. If $U = \{a, b, c, d, e, f, g, h, i\}$, $A = \{d, g, f, a\}$, $B = \{e, f, h\}$, find A' .
A. $A' = \{d, g, f, a, i\}$ B. $\{b, c, i\}$ C. $\{b, c, e, h, i\}$ D. $\{a, b, c, e, g, i\}$
6. In number 5, find $A' \cap B'$.
A. $\{d, g, h, i\}$ B. $\{b, c, i\}$ C. $\{d, e, f, i\}$ D. $\{d, e, f, g, h\}$

For numbers 7 – 9 , refer to the situation below:

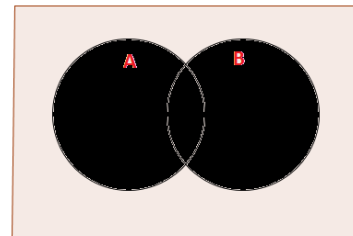
A class of 45 students took examinations in Science and Math. If 35 passed Science, 15 passed Math and 6 failed both subjects,

7. How many students passed both subjects? A. 6 B. 15 C. 35 D. 44
8. How many students passed Science only? A. 15 B. 35 C. 50 D. 60
9. How many students passed Science only? A. 6 B. 9 C. 12 D. 15
10. Which is the correct Venn Diagram of $(B - A - C)$?



11. Which set notation represent the shade region in the given Venn Diagram?

- A. $A \cup B$ C. $(A \cup B)'$
B. $A \cap B$ D. $(A \cap B)'$



12. Which of the following rational number is finite?
A. $\{2, 4, 6, 8, 10\}$ C. $\{... 7, 14, 21, 28\}$
B. $\{x | x < 100\}$ D. even numbers

For items 13 and 14, Use the given situation below:

A group of 40 students were asked whether they use either yahoo or google. Twenty- five of their students use yahoo and 30 use google.

12. How many use google only? A. 10 B. 15 C. 30 D. 25
13. How many use both website? A. 10 B. 15 C. 30 D. 25

14. Which of the following set of integers are arrange from least to greatest?

- A. -7, 25, -40, 9, 0, 98, -2 B. -40, -7, -2, 0, 9, 25, 98
C. 98, 25, 9, 0, -2, -7, -40 D. 0, -7, -2, -40, 25, 98, 9

15. What integer is 12 units to the left of -26? A. 14 B. 38 C. -38 D. -14

16. In math contest, every correct answer is worth 3 points and every wrong answer is worth -2 points. If Ernest answer 20 questions correctly and 5 wrong answers, what was the total points?

- A. 30 B. 40 C. 50 D. 60

17. Mrs. Concepcion made P 47, 500 in the stock market while Mrs. Cruz lost P 23, 800. What was the difference in their performance?

- A. P23 700 B. P22 700 C. P71 300 D. - P23 700

18. What is the difference of 93 and (-65) ? A. 28 B. - 28 C. -158 D. 158

19. What is the product of $(-100)(-11)$? A. -1100 B. 1100 C. 1000 D. 1200

20. Which of the following decimal number has the digit 7 in thousandths place?

- A. 5. 397 B. 37. 958 C. 15. 078 D. 25. 746

22. Which of the following is a whole number but not a counting number?

- A. -1 B. $\frac{1}{2}$ C. 0 D. 1

23. Evaluate : $(-1)^{101} - (-1)^{100}$ A. -2 B. 1 C. 0 D. -1

24. Set A= {letters of the word Mathematics}, B= {vowels of the English Alphabet}, find $A \cap B$.
A. {a, e} B. {a, i} C. {a, e, i} D. {a, e, o}

25. What should be subtracted by -15 to obtain 7? A. -6 B. 8 C. 6 D. -8

26. What remains when $\frac{3}{8}$ is subtracted from 1 whole?

- A. $\frac{1}{2}$ B. $\frac{5}{8}$ C. $\frac{2}{8}$ D. $\frac{3}{8}$

27. Between which two consecutive integers does $\sqrt{300}$?
A. 15 and 16 B. 13 and 14 C. 11 and 12 D. 17 and 18

28. If S is at -43 and M is at 22, how long is SM?
A. -65 B. 65 C. 21 D. -21

29. What integer is 19 less than -74? A. 93 B. 55 C. -93 D. -55

30. 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

31. Simplify: $21 - 9 \div (-3)$. A. -24 B. 4 C. 24 D. - 4

32. If each liter of gasoline costs ₱42.65, how much will 5.2 liters cost to the nearest centavo?

- A. ₱221.70 B. ₱221.60 C. ₱221. 50 D. ₱221. 80

33. What is the smallest positive integer by which 108 can be multiplied to make it a perfect square?

- A. 2 B. 3 C. 6 D. 5

34. Starting at the middle step of the ladder, a fireman goes up by 7 steps, and 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

35. What is the fraction form of 1.030303...?

- A. $\frac{103}{100}$ B. $\frac{33}{34}$ C. $\frac{34}{33}$ D. $\frac{100}{103}$

36. Manny receives a monthly salary of ₱12 000. He spends $\frac{1}{3}$ of it on house rental, $\frac{1}{4}$ of it on bills, and 30% on food. How much money does he have left for his leisure activities?

- A. ₱1 200 B. ₱1 400 C. ₱2 400 D. ₱2 100

37. What must be subtracted from -12 to get -31?

- A. -19 B. 43 C. 19 D. - 43

38. How many 25 centavos are there in ₱18. 75?

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

39. What must be subtracted by $\frac{5}{8}$ to obtain $1\frac{3}{4}$?

- A. $2\frac{3}{8}$ B. $2\frac{3}{4}$ C. $1\frac{1}{8}$ D. $1\frac{3}{4}$

40. Given $U = \{\text{whole numbers less than 12}\}$, $A = \{\text{prime numbers less than 10}\}$, which of the following are the elements of A' ?

- A. $A' = \{1,4,6,8,9,10,11\}$ B. $A' = \{0,1,4,6,8,9,10,11,12\}$
C. $A' = \{0,1,4,6,8,9,10,12\}$ D. $A' = \{0,1,2,4,6,8,9,10,12\}$

41. How many watermelons can Mikee buy with ₱1000 if each costs ₱75?

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

42. What integer is 19 less than -74? A. 93 B. 55 C. -93 D. -55
43. Simplify : $(-3)^3 - (-2)^3$ A. -35 B. 35 C. 19 D. -19
44. What is the decimal form of $\frac{5}{8}$? A. 0.666... B. 0.625 C. 0.6262... D. 0.325
45. Evaluate: $50 \div 5(-6) - \{2^3 + (-23 - (-5)^2)\}$
 A. -20 B. -100 C. 48 D. -58
46. It is a well-defined collection of distinct objects.
 A. subset B. diagram C. set D. algebra
47. What property is being described in $(-2 + 3) + 5 = -2 + (3 + 5)$?
 A. commutative B. identity C. distributive D. associative
48. Which of the following is not a rational number?
 A. -3 B. 0 C. π D. $\sqrt{49}$
49. A certain grocery is giving away special prizes for its anniversary sale. Every 16th customer gets bag of groceries while every 24th gets can of biscuits and every 36th customer gets basket of fruits. Who will be the first customer to receive all the prizes?
 A. 60th B. 72nd C. 120th D. 144th
50. What number is 109 more than thrice 49?
 A. 147 B. 240 C. 256 D. 266