1) Which of the following can be a value of X so that 28,54X is divisible by 3?
(a) 2
(b) 4
(c) 5
(d) both A and C

2) The length of a side of a square is expressed as 2 - 4x. What is the area of the square in terms of x?
(a) $4 - 16x + 16x^2$
(b) $4 + 16x - 16x^2$
(c) $4 - 16x^2$
(d) $4 - 8x$

3) If a number is divided by 5 and then increased by 5, the result is 14. What is the number?
(a) 105
(b) 92
(c) 54
(d) 45

4) If the length of the sides of a square are increased by 10%, then its perimeter will increase by _____.
(a) 40%
(b) 10%
(c) 2%
(d) 4%

5) A cubic foot of a certain type of wood plank costs Php 92. How much should someone pay for a 9 ft. x 10 ft. x 12 ft. wood plank?
(a) Php 88, 440
(b) Php 92, 590
(c) Php 98, 740
(d) Php 99, 360

6) How many 3" x 3" small cardboards can be cut from a 18" by 12" cardboard?
(a) 18
(b) 24
(c) 36
(d) 48

7) Compute for 54 ÷ 3 x 9 + 2
(a) 4
(b) 164
(c) 54/33
(d) None of the above

8) Expand $(2 - 3x)^2$
(a) $4 - 6x + 9x^2$
(b) $4 + 6x - 9x^2$
(c) $4 - 12x + 9x^2$
(d) $4 + 12x - 9x^2$

9) The average number of marbles that Luke, Merry, and Matt have is 22. If Matt has 23 marbles, what is the sum of Luke's and Merry's marbles?
(a) 52
(b) 47
(c) 43
(d) 39

10) An eatery gained total sales in the afternoon twice as large as the total sales in the morning. If the eatery gained a total sales of Php 6,900, how much did the eatery gain in the morning?
(a) Php 4600
(b) Php 2300
(c) Php 1150
(d) Cannot be Identified

11) Athena is 21 years younger than Lorna. 7 years ago, the sum of their ages is 69. How old is Athena at the present?
(a) 45
(b) 40
(c) 37
(d) 31

12) The longest side of a triangle is three times as long as the shortest side. If one side of the triangle is 13 cm long and its perimeter is 33 cm, how long is its longest side?
(a) 13 cm
(b) 15 cm
(c) 18 cm
(d) 20 cm

13) Two 121 square meter squares are placed side by side to form a rectangle. What is the perimeter of the rectangle formed?
(a) 122 meters
(b) 98 meters
(c) 72 meters
(d) 66 meters

14) The ratio of sides of a triangle is 5 : 9 : 14. If its perimeter is 84 units, how long is its shortest side?
(a) 13
(b) 15
(c) 27
(d) 49

15) The sum of three consecutive odd numbers is 141. Determine the smallest of these numbers?
(a) 33

(b) 45
(c) 53
(d) 65

16) It takes four hours for Letty to polish an entire hall. Meanwhile, Jelyn can polish the same hall for 2.5 hours. How many hours would it take to polish the hall if Letty and Jelyn work together?
(a) 1 5/12 hours
(b) 1 7/13 hours
(c) 1 3/4 hours
(d) 1 1/13 hours

17) If 15 stamps cost Php 420, how much does 6 stamps cost?
(a) Php 152
(b) Php 168
(c) Php 174
(d) Php 180

18) If y = 14, what is the value of x in 2y + 5x = 19?
(a) -9/5
(b) -5/9
(c) 9/5
(d) 5/9

19) Store B sold ¾ of the number of pots that Store A had sold. If Store A and Store B sold a total of 490 pots, how many pots did Store A sell?
(a) 210
(b) 280
(c) 140
(d) 190

20) Two supplementary angles are in a ratio of 1 : 3. Determine the larger angle.
(a) 105 degrees
(b) 110 degrees
(c) 120 degrees
(d) 135 degrees