EASY

- 11] $(2x 3)^2 =$
- 12] 94 x 93 =
- 13] $(218)^2 = 47,424$, TRUE or FALSE?
- 14] 104 x 112 =

For numbers 15 to 18, find x.

- 15] 3x = 154
- 16] 7x + 2 = 3x + 18
- 17] $7x^2 = 175$
- 18] 2x + 3 = 5
- 19] Find x and y, given 3x + y = 24 and x - y = 16.
- 20] 121

AVERAGE

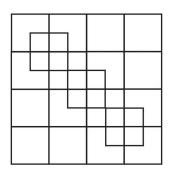
- 312 x 306 =
- 2] $(x + 1) (x^2 + 2x + 3) =$
- $(3x^2 1)(x^2 3) =$
- $999x999 + 2 \times 999 =$
- 111,111,111 x 111,111,111 =

Solve for x in the following equations:

- 6] (2x+4)/10 = 3/5
- 7] 5x + 5 = 2x + 11
- 8] x/3 x/5 = 8
- 9] 9x + 7y = 86x + 7y = 22; x = ?
- 10) The sum of 5 consecutive multiples of 3 is 180. Find the numbers.

DIFFICULT

- 1] $5555^2 4444^2 =$
- 2] $(2x^2 + x + 1)(x^2 2x 5) =$
- Find x and y, given 8x 3y = 27 and 3x 8y = 17.
- 4] What is the 3rd term of the product of $(2x^3 + x^2 + 3x + 4)$ and $(x^3 + 3x^2 - 4x + 2)$?
- 5] What is the point of intersection of the lines 3x + y = 9 and 2x - y = 1?
- The sum of two numbers is 128 while their difference is 72. What is the smaller number?
- The sum of two numbers is 20, while the sum of their squares is 298. Find the bigger number.
- Find four consecutive even numbers that add up to 460.
- In exchange for 7 ₱1,000 bills, the bank teller gave me 29 bills in denominations of ₱200 and ₱500 bills. How many ₱200 bills did I receive?
- Count the number of squares in this illustration.



- $5,342 \times 11 =$
- $9,095 \times 9,999 =$
- $(56)^2 =$
- $21,021 \div 9 =$
- $2,489 \div 11 =$
- 58 x 62 =
- 7] 42 <u>x 23</u>
- $47^2 43^2 =$
- $2,412 \times 21 =$
- 10] 2x(4x-2) =

x 123

Answers to HS I - Grades 7 & 8

EASY (2 Pts each)

- 1) 58,762
- 2) 90,940,905
- 3) 3,136
- 4) 2335 r. 6
- 5) 226 r. 3
- 6) 3,596
- 7) 966
- 8) 360
- 9) 50,562
- 10) $8x^2 4x$
- 11) $4x^2 12x + 9$
- 12) 8,742
- 13) False
- 14) 11,648
- 15) 20
- 16) 4
- 17) 5
- 18) 1
- 19) X = 10, y = -6
- 20) 14, 883

Average Questions (3 - pts)

- 1) 95, 472
- 2) $x^3 + 3x^2 5x + 3$
- 3) $3x^4 10x^2 + 3$
- 4) 999,999
- 5) 12,345,678,987,654,321
- 6) X = 1
- 7) X = 2
- 8) X = 60
- 9) X = 8 30, 33, 36, 39, 42

Difficult questions (4 points each)

- 1) 11,108,889
- 2) $2x^4 3x^3 11x^2 7x 5$
- 3) X = 3, y = -1
- 4) -2x⁴
- 5) (2, 3)
- 6) 28
- 7) 17
- 8) 112, 114, 116, 118
- 9) 25 P200 bills
- 10) 51