## EASY

## AVERAGE

## DIFFICULT

1] $5,342 \times 11=$

2] $9,095 \times 9,999=$

3] $(56)^{2}=$

4] $21,021 \div 9=$

5] $2,489 \div 11=$

6] $58 \times 62=$

7] $\begin{array}{r}42 \\ \times 23\end{array}$

8] $47^{2}-43^{2}=$

9] $2,412 \times 21=$

10] $2 x(4 x-2)=$

19] Find $x$ and $y$, given
11] $(2 x-3)^{2}=$

12] $94 \times 93=$

13] $(218)^{2}=47,424$, TRUE or FALSE?

14] $104 \times 112=$

For numbers 15 to 18 , find $x$.
15] $\frac{3 x}{4}=15$

16] $7 x+2=3 x+18$

17] $7 x^{2}=175$

18] $2 x+3=5$

$$
3 x+y=24 \text { and } x-y=16
$$

20] 121
$\begin{array}{r} \\ \times \quad 123 \\ \hline\end{array}$

1] $312 \times 306=$

2] $(x+1)\left(x^{2}+2 x+3\right)=$

3] $\left(3 x^{2}-1\right)\left(x^{2}-3\right)=$

4] $999 \times 999+2 \times 999=$

5] $111,111,111 \times 111,111,111=$

Solve for $x$ in the following equations:
6] $(2 x+4) / 10=3 / 5$

7] $5 x+5=2 x+11$

8] $x / 3-x / 5=8$

9] $9 x+7 y=86$
$x+7 y=22 ; x=?$
10) The sum of 5 consecutive multiples of 3 is 180 . Find the numbers.

1] $5555^{2}-4444^{2}=$

2] $\left(2 x^{2}+x+1\right)\left(x^{2}-2 x-5\right)=$

3] Find $x$ and $y$, given $8 x-3 y=27$ and $3 x-8 y=17$.

4] What is the $3^{\text {rd }}$ term of the product of $\left(2 x^{3}+x^{2}+3 x+4\right)$ and $\left(x^{3}+3 x^{2}-4 x+2\right) ?$

5] What is the point of intersection of the lines $3 x+y=9$ and $2 x-y=1 ?$

6] The sum of two numbers is 128 while their difference is 72 . What is the smaller number?

7] The sum of two numbers is 20 , while the sum of their squares is 298 . Find the bigger number.

8] Find four consecutive even numbers that add up to 460 .

9] In exchange for 7 P1,000 bills, the bank teller gave me 29 bills in denominations of $\neq 200$ and尹500 bills. How many $\boldsymbol{P} 200$ bills did I receive?

10] Count the number of squares in this illustration.


## 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) $8 x^{2}-4 x$
11) $4 x^{2}-12 x+9$
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) $x^{3}+3 x^{2} 5 x+3$
3) $3 x^{4}-10 x^{2}+3$
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) $2 x^{4}-3 x^{3}-11 x^{2}-7 x-5$
3) $x=3, y=-1$
4) $-2 x^{4}$
5) $(2,3)$
6) 28
7) 17
8) $112,114,116,118$
9) 25 - P200 bills
10) 51
