$\qquad$
Class \& Sec.:-___ Roll No.:-__ Date:-

Revision Assignment-1

Good Morning Students! Today we will do Divisibility Tests:-

1) Divisibility by 2:- A number is divisible by 2 , if its ones place is either 0 or multiple of 2 , i.e. $2,4,6,8$, etc.
2) Divisibility by 3:-_A number is divisible by 3, if the sum of digits is a multiple of 3.
3) Divisibility by 4:- A number is divisible by 4 , if the number formed by its digits in tens and ones place is divisible by 4.
4) Divisibility by 5:- A number is divisible by 5, if its ones place is either 0 or 5.
5) Divisibility by 6:-A number is divisible by 6, f it is divisible by 2 and 3 both.
6) Divisibility by 8:-A number is divisible by 8, if the number formed by the last three digits
7) Divisibility by 9:- A number is divisible by 9 , if the sum of its digits is divisible by 9.
8) Divisibility by 10:-_A number is divisible by 10, if it has zero (0) in its ones place.

Exercise-4(A)
Q.5) Write ' $P$ ' for prime and ' $C$ ' for composite numbers.
a) $12 \quad \mathrm{C}$
b) 31
c) 38 $\qquad$
d) 46 $\qquad$ e) 61
f) 83 $\qquad$
g) 99 C
h) 2

i) 1 Neither $P$ nor $C$
j) $107 \_\mathbf{P}$
k) $101 \quad \mathrm{P}$
l) $73 \ldots \mathrm{P}$
Q. 6) Write down the prime factors of the following numbers.
b)

$$
\begin{array}{r|r|r}
54 & 2 & 54 \\
\hline 3 & 27 \\
\hline 3 & 9 \\
\hline 3 & 3 \\
\hline & 1
\end{array}
$$

Prime factors of $54=2 \times 3 \times 3 \times 3$
C) 144

| 2 | 144 |
| :--- | :--- |
| 2 | 72 |
| 2 | 36 |
| 2 | 18 |
| 3 | 9 |
| 3 | 3 |
| 1 | 1 |

Prime factors of 143

$$
=2 \times 2 \times 2 \times 2 \times 3 \times 3
$$

d) $1 / 2$

| 2 | 112 |
| :--- | :--- |
| 2 | 56 |
| 2 | 28 |
| 2 | 14 |
| 7 | 7 |
|  | 1 |

$\begin{aligned} & \text { Prime factors of } 112 \\ &= 2 \times 2 \times 2 \times 2\end{aligned}$

$$
=2 \times 2 \times 2 \times 2 \times 7
$$

e) 216

| 2 | 216 |
| :--- | :--- |
| 2 | 108 |
| 2 | 54 |
| 3 | 27 |
| 3 | 9 |
| 3 | 3 |
|  | 1 |

Prime factors of 216 $=2 \times 2 \times 2 \times 3 \times 3 \times 3$

