

# HOME ASSIGNMENT-6 Class VIII Term-I

## Ch-16 Playing With Numbers

1. Find the missing digits:

$$(a) \begin{array}{r} 5A \\ 87 \\ \hline CB3 \end{array}$$

$$(b) \begin{array}{r} A \\ +A \\ +A \\ \hline BA \end{array}$$

$$(c) \begin{array}{r} 4CAG \\ +B69A \\ \hline 8173 \end{array}$$

$$(d) \begin{array}{r} 6A \\ -AB \\ \hline 37 \end{array}$$

$$(e) \begin{array}{r} CB8 \\ -28A \\ \hline 259 \end{array}$$

$$(f) \begin{array}{r} AB \\ \times 3 \\ \hline CAB \end{array}$$

$$(g) \begin{array}{r} 6AB5 \\ +D58C \\ \hline 9351 \end{array}$$

$$(h) \begin{array}{r} 35A \\ -CB8 \\ \hline 183 \end{array}$$

$$(i) \begin{array}{r} 4A \\ \times 6 \\ \hline 2B4 \end{array}$$

$$(j) \begin{array}{r} ABA \\ \times A \\ \hline BCBA \end{array}$$

$$(k) \begin{array}{r} PQR6 \\ \times 7 \\ \hline QQ7QQ \end{array}$$

$$(l) \begin{array}{r} PQR \\ \times 5 \\ \hline SQR \end{array}$$

2. What are the values of digits X and Y if  $XOX - Y73 = 23Y$ ?

3. If  $1AB + CCA = 697$  and there is no carry-over, find the value of  $A+B+C$ .

4. If  $212x5$  is a multiple of 3, find the value(s) of x. (x is a digit). Also, write the numbers so formed.

5. Check the divisibility of 2146587 by 9 with the help of rules of divisibility.

6. Without actual division, check if 23414567 is divisible by 11.

ANSWERS:

1. (a)  $A=6, B=4, C=1$       (b)  $A=5, B=1$       (c)  $A=7, B=3, C=4$       (d)  $A=5, B=1$

(e)  $A=9, B=4, C=5$       (f)  $A=5, B=0, C=1$       (g)  $A=7, B=6, C=6, D=2$

(h)  $A=1, B=6, C=1$       (i)  $A=4, B=6$       (j)  $A=5, B=2, C=6$       (k)  $P=3, Q=2, R=4$

(l)  $P=1, Q=2, R=5, S=6$

2.  $X=8, Y=5$

3. 12 ( $A=4, B=3, C=5$ )

4.  $x=2, 5, 8$       NO's  $\rightarrow 21225, 21255, 21285$

5. NO      6. Yes