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CLASS - 4

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SUB -MATHS

S.T-PRAGYA

BASED ON N.C.E.R.T PATTERN:-

CH – PATTERN

Example : 1. State whether 16 is a multiple of 2 .

$$\begin{aligned}\text{We have } 16 &= 2 \times 8 = 2 \times 2 \times 4 \\ &= 2 \times 2 \times 2 \times 2\end{aligned}$$

Ans . 16 is multiple of 2. 16 is multiple of 4 .

$$\begin{aligned}\text{HINT (Observe) } &= 11 = 1 + 1 = 2 \\ &= 12 = 1 + 2 = 3 \\ &1 + 0 = 1 \text{ etc}\end{aligned}$$

Follow the example and solve :

1. Study the pattern.

$$\begin{array}{ll} 11 & = 2 \\ 25 & = 7 \\ 1234 & = 10 = 1 \end{array} \qquad \begin{array}{ll} 12 & = 3 \\ 125 & = 8 \end{array}$$

Following this pattern, fill in the blanks.

a	37	=	10	=
b	27	=	9	=
c	127	=	10	=
d	12345	=	15	=

216

Observe the pattern and extend it for two more steps.

a

$$1 = 9 + 2 = 11$$
$$12 = 9 + 3 = 111$$
$$123 = 9 + 4 = 1111$$

Step-I
Step-II
Step-III
Step-IV
Step-V

b

$$111 \div 3 = 37$$
$$222 \div 6 = 37$$
$$333 \div 9 = 37$$

Step-I
Step-II
Step-III
Step-IV
Step-V

3. Observe the pattern and extend it for two more steps.

- a 5, 7, 9, 5, 7, 9,,
- b 1, 4, 5, 9, 14, 23,,
- c 2, 4, 8, 16,,,
- d 1, 3, 5, 7, 9, 11,,
- e 2, 2, 5, 2, 2, 2, 5, 5, 2, 2, 2, 2,,
