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PLAYING WITH NUMBERS

PERIOD 4

SUBJECT : MATHEMATICS
CHAPTER NUMBER: 5
CHAPTER NAME : PLAYING WITH NUMBERS

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Learning outcome

Students will be able to understand the tests of divisibility

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Previous knowledge:

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

$C + 5 = 11$

$\therefore\ C = 11 - 5 = 6$

and $8 + B + 1 = 15$

$\therefore\ B = 15 - 9 = 6$

and $A + 5 + 1 = 13$

$\therefore\ A = 13 - 6 = 7$

and $6 + D + 1 = 9$

$\therefore\ D = 9 - 7 = 2$

Hence $A = 7$, $B = 6$, $C = 6$ and $D = 2$

$$\begin{array}{r} 6765 \\ +2586 \\ \hline 9351 \end{array}$$

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Exercise-5(C)

1)Find which of the following numbers are divisible by 2:

(i) 192 (ii) 1660 (iii) 1101 (iv) 2079

Sol: A number having its unit digit 2,4,6,8 or 0 is divisible by 2. So, numbers 192,1660 are all divisible by 2.

2) Find which of the following numbers are divisible by 3:

i) 261 (ii) 111 (iii) 6657 (iv) 2574

Sol: A number is divisible by 3 if the sum of the digits is divisible by 3. . So,all the given numbers are divisible by 3.

3) Find which of the following numbers are divisible by 4:

(i) 360 (ii) 3180 (iii) 5348 (iv) 7756

Sol: A number is divisible by 4 if the number formed by last two digits is divisible by 4. So,all the given numbers are divisible by 4.

Exercise-5(C)

4) Find which of the following numbers are divisible by 5 :

(i) 3250 (ii) 5557 (iii) 39255 (iv) 8204

Sol: A number having its unit digit is 5 or 0, is divisible by 5. So, numbers 3250, 39255 are all divisible by 5.

5) Find which of the following numbers are divisible by 10:

(i) 5100 (ii) 4612 (iii) 3400 (iv) 8399

Sol: : A number having its unit digit is 0, is divisible by 10. So, numbers 5100,3400 are all divisible by 10.

6) Which of the following numbers are divisible by 11 :

(i) 2563 (ii) 8307 (iii) 95635

Sol: A number is divisible by 11 if the difference of the sum of digits at the odd places and sum of the digits at even places is zero or divisible by 11.

So, 2563 is divisible by 11.

Home assignment

Exercise 5(c)

AHA

1. **A three-digits number 203 is added to the number 326 to give a three-digits number 5b9 Which is divisible by 9. Find the value of b – a.**
2. **Find the value of k, where 31K2 is divisible by 6.**

THANKING YOU

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