

CHAPTER 3

PLAYING WITH NUMBERS

More Questions for Practice

- Write each of the following numbers in generalised form:
(a) 712 (b) 1238 (c) xyz (d) $trsp$
- Form all possible 3-digit numbers with the digits of the followings numbers:
(a) 534 (b) 840 (c) 109
- How many 4-digit numbers can you form with the digits of 2057? Write all such 4-digit number.
- Check, if each of the following 10-digit numbers are divisible by all the whole numbers from 1 to 18:
(a) 4753869120 (b) 4876391520
- Construct a 3×3 magic square with only even numbers.
- Replace each letter of alphabet by a digit (1 to 9) so that the sum is correct:
(a)
$$\begin{array}{r} X \ Y \ Z \\ - \ Z \ Z \ Y \\ \hline Y \ Z \ X \end{array}$$

(b)
$$\begin{array}{r} A \ B \\ \times B \ A \\ \hline C \ B \ A \ C \end{array}$$
- Fill the empty sets of the square, so as to make it a magic square with the sum 38.

6			
17		8	
	14		7
3		10	

ANSWERS

- (a) $7 \times 10^2 + 1 \times 10^1 + 2 \times 10^0$
(c) $x \times 10^2 + y \times 10^1 + z \times 10^0$
(b) $1 \times 10^3 + 2 \times 10^2 + 3 \times 10^1 + 8 \times 10^0$
(d) $t \times 10^3 + r \times 10^2 + s \times 10^1 + p \times 10^0$
- (a) 534, 543, 345, 354, 435, 453
(c) 109, 190, 910, 901
(b) 840, 804, 408, 480
- 2057, 2075, 2570, 2507, 2705, 2750
5027, 5072, 5270, 5207, 5702, 5720
7052, 7025, 7520, 7502, 7205, 7250

4. (a) It is divisible by all whole numbers from 1 to 18.
(b) It is divisible by all whole numbers from 1 to 18.

5.

16	2	12
6	10	14
8	18	4

6. (a) $X = 7, Y = 5, Z = 2$
(b) $A = 8, B = 7, C = 6$

7.

6	4	15	13
17	11	8	2
12	14	5	7
3	9	10	16

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