PLAYING WITH NUMBERS

REVERSING THE DIGITS AND FIND THE DIGIT

EXERCISE

Q.1 Solve and find values of a, b, c

(a) $4a + 3(6 - 2) + 25 \div 5 = 21$

(b) $(15 \div 5) + 3 \times 4 - b = 17$

(c) $a(18 + 3) + 4 \times 5 \div 2 - 7 = 45$

(d) $2 \times 3 + 14 \div 7 + 6 - 7c = 35$

(e) $48 \div 12 \times \left(\frac{9}{8}\text{of}\,\frac{4}{3} \div \frac{3}{4}\text{of}\,\frac{2}{3} + a\right) = 6$

(f) $10 - [9 - \{8 - (7 - 6)\}] - c = 3$

Find a, b, c in the following.

Q.2 (a) $7a + 43b + c = 518$, where a, b, c are in the units place and $c < a < b$.

(b) $a36 + b8 + c = 317$, where a is in the hundred digit, b is the tens digit and c is the ones digit.

Q.3 $a38 + b3 + 5c = 745$

Q.4 $a96 - 43c + 402 - b2 = 814$

Q.5 $a62 - 473 + 2b6 - 105 + 43c = 1106$

ANSWER KEY

1. (a) 1 (b) –2 (c) 2

(d) – 3 (e) $\frac{-7}{3}$ (f) 5

2. (a) $a = 5, b = 9, c = 4$ or $a = 6, b = 8, c = 4$

(b) $a = 2, b = 7, c = 3$

3. $a = 6,\ b = 5,\ c = 4$

4. $a = 8,\ b = 6,\ c = 2$

5. $a = 9,\ b = 8,\ c = 6$