Practice Questions

Type 1 Problem-Solving by Substitution

1. If '+' means 'divided by', '–' means 'added to', '×' means 'subtracted from' and '÷' means 'multiplied by', then what is the value of $24 \div 12 - 18 + 9$?
(1) –25 (2) 0.72 (3) 15.30 (4) 290
(5) None of these

2. If '+' means 'minus', '×' means 'divided by', '÷' means 'plus' and '–' means 'multiplied by', then which of the following will be the value of the expression $252 \times 9 - 5 + 32 \div 92$?
(1) 95 (2) 168 (3) 192 (4) 200
(5) None of these

3. If '+' means 'minus', '–' means 'added to', '×' means 'divided by' and '÷' means 'multiplied by', then which of the following will be the value of the expression $3 \times 2 - 1 + 4 \div 2$?
(1) – 45 (2) – 5.5 (3) 45 (4) 5.5
(5) None of these

4. If '×' means '–', '–' means '+', '+' means '÷' and '÷' means '×'. Which of the following will be the value of the expression $6 \times 4 - 3 + 2 \div 1$?
(1) 1.5 (2) 2.5 (3) 3.5 (4) 4.5
(5) None of these

5. If '+' means '÷', '÷' means '×', '×' means '+' and '–' means '–'. Then, what is the value of $17 + 8.5 - 3.5 \div 2 \times 3$?
(1) – 2 (2) 4 (3) 6 (4) 3
(5) None of these

6. If '÷' means '×', '×' means '+', '+' means '–' and '–' means '÷', find the value of $16 \times 3 + 5 - 2 \div 4$
(1) 9 (2) 10 (3) 19 (4) 20
(5) None of these

7. If + means '÷', '÷' means '–', '–' means '×', '×' means '+', then $12 + 6 \div 3 - 2 \times 8 = ?$
(1) –2 (2) 2 (3) 4 (4) 8
(5) None of these

8. If '+' means '–', '–' means '×', '÷' means '+' and '×' means '÷', then $15 - 3 + 10 \times 5 \div 5 = ?$
(1) 5 (2) 22
(3) 48 (4) 52
(5) None of these

9. If '×' means '÷', '–' means '×', '÷' means '+' and '+' means '–', then $(3 - 15 \div 19) \times 8 + 6 = ?$
(1) –1 (2) 2
(3) 4 (4) 8
(5) None of these

10. If '×' means '+', '+' means '÷', '–' means '×' and '÷' means '–', then $8 \times 7 - 8 + 40 \div 2 = ?$
(1) 1 (2) $7\frac{2}{5}$ (3) $8\frac{3}{5}$ (4) 44
(5) None of these

Directions (Q. Nos. 11 to 15) *If + is ×, – is +, × and ÷ is –, then answer the following questi based on this information.*

11. $21 \div 8 + 2 - 12 \times 3 = ?$
(1) 14 (2) 9 (3) 13.5 (4) 11
(5) None of these

12. $6 + 7 \times 3 - 8 \div 20 = ?$
(1) – 3 (2) 7 (3) 2 (4) 1
(5) None of these

13. $15 \times 5 \div 3 + 1 - 1 = ?$
(1) –1 (2) – 2 (3) 3 (4) 1
(5) None of these

14. $9 - 3 + 2 \div 16 \times 2 = ?$
(1) 7 (2) 5 (3) 9 (4) 6
(5) None of these

15. $6 - 9 + 8 \times 3 \div 20 = ?$
(1) –2 (2) 6 (3) 10 (4) 12
(5) None of these

Directions (Q. Nos. 16 to 19) *For the follo questions*
□ means 'is bigger than'
Δ means 'is smaller than'
O means 'is equal to'
× means 'plus'
= means 'minus'

16. If a □ c and b × d O c, then
(1) d □ a (2) a O d (3) b □ c (4) d Δ a
(5) c □ a

17. If a = b Δ d = c and a O c, then
(1) d □ b (2) d Δ b (3) b O d (4) a □ b
(5) a O d

18. If a × b × c O b × c × d, then
(1) d O c (2) a □ d (3) a O d (4) b O c
(5) b □ d

19. If b □ c but b Δ a and c × d O a, then relation betweer d will be
(1) d □ b (2) d Δ b (3) b O d (4) b Δ c
(5) Cannot be determined