Mathematical Operations

Solution

1. **Answer(A):**
$11 + 9 – 4 \times 12 \div 6 = 32$
Putting '÷' in place of '–' vice-versa, we get
$11 + 9 \div 4 \times 12 – 6 = 32$
$11 + 94 \times 12 – 6 = 32$
$11 + 9 \times 3 – 6 = 32$
$11 + 27 – 6 = 32$ (Apply BODMAS)
$38 – 6 = 32$
$32 = 32$

2. **Answer(A):**
$11 \div 9 – 63 + 7 \times 2$
Putting '÷' in place of '+' vice-versa
$11 + 9 – 63 \div 7 \times 2$
$11 + 9 – 9 \times 2$
$11 + 9 – 18$ (Apply BODMAS)
$20 – 18$
2

3. **Answer(D):**
$3 + 6 \div 2 \times 4 – 7 = 5$
Putting '6' in place value '3' vice-versa, we get
$6 + 3 \div 2 \times 4 – 7 = 5$
$6 + 3/2 \times 4 – 7 = 5$
$6 + 6 – 7 = 5$ (Apply BODMAS)
$12 – 7 = 5$
$5=5$

4. **Answer(A):**
$11 + 16 \times 12 \div 4 – 2 = 21$
Putting '×' in place of '–' vice – versa, we get
$11 + 16 – 12 \div 4 \times 2 = 21$
$11 + 16 – 3 \times 2 = 21$
$11 + 16 – 6 = 21$
$27 – 6 = 21$ (apply BODMAS)
$21 = 21$

5. **Answer(B):**
$13 – 9 \times 2 \div 3 + 16 = 3$
Putting '–' in place of '+' vise-versa, we get
$13 + 9 \times 2 \div 3 – 16 = 3$
$13 + 9 \times 23 – 16 = 3$
$13 + 3 \times 2 – 16 = 3$
$13 + 6 – 16 = 3$
$3 = 3$

6. **Answer(C):**
$3+2 \div 1 \times 4 – 7$
Interchang the numbers
$3+2 \div 1 \times 7 – 4$(Alpply BODMAS)
$3+2 \times 7 – 4$
$3+14 – 4$
$17 – 4$
13

7. **Answer(D):**
$9 \times 11 \div 31 + 62 – 13 = 18$
Putting '+' in place of '×' vice-versa, we get
$9 + 11 \div 31 \times 62 – 13 = 18$
$9 + 11/31 \times 62 – 13 = 18$
$9 + 11 \times 2 – 13 = 18$ (Apply BODMAS)
$9 + 22 – 13 = 18$
$9 + 9 = 18$
$18 = 18$

8. **Answer(A):**
$6 + 3 \div 9 \times 7 – 5$
Putting '7' in place of '6' vice-versa we get
$7 + 3 \div 9 \times 6 – 5$ (Apply BODMAS)
$7 + 3/9 \times 6 – 5$
$7 + 2 – 5$
4

9. **Answer(C):**
$9 \div 11 + 11 \times 2 = 9$
Putting '÷' in place of '+' vice-versa we get
$9 + 11 \div 11 \times 2 = 9$
$9 + 11/11 \times 2 = 9$
$9 + 2 = 9$
$11 \neq 9$

10. **Answer(D):**
$11 + 13 – 24 \times 3 \div 2$
Interchanging the signs "×" and "÷"'
$11 + 13 – 24 \div 3 \times 2$
$11 + 13 – 16$
$24 – 16 = 8$

11. **Answer(A):**

$9 \times 5 \div 10 + 30 = 24$
Putting "+" in place of "×" vice versa we get
$9 + 5 \div 10 \times 30 = 24$
$9 + 5/10 \times 30 = 24$
$9 + 15 = 24$

12. Answer(A):
$6 \div 3 \times 5 - 15 + 4 = 9$
Interchanging the signs "–" and "÷"
$6 - 3 \times 5 \div 15 + 4$
$6 - 3 \times 5/15 + 4$
$6 - 1 + 4$
$5 + 4 = 9$

13. Answer(C):
$9 - 11 + 26 \div 78 \times 27 = 11$
Interchanging the signs "–" and +
$9 + 11 - 26 \div 78 \times 27 = 11$
$9 + 11 - 26/78 \times 27 = 11$
$9 + 11 - 9 = 11$
$20 - 9 = 11$
$11 = 11$

14. Answer(B):
$5 - 9 + 16 \times 91 \div 13 = -98$
Interchanging the sign "+" and "–"
$5 + 9 - 16 \times 91 \div 31$
$5 + 9 - 16 \times 91/13$
$14 - 112 = -98$

15. Answer(B):
$6 \times 8 \div 32 + 64 - 11$
Interchanging the sign "+" and "×"
$6 + 8 \div 32 \times 64 - 11$
$6 + 8/32 \times 64 - 11$
$6 + 16 - 11$
$22 - 11 = 11$
$11 = 11$

16. Answer(A):
$6 \div 5 + 12 \times 4 - 7 = 26$
Interchanging the sign ÷ and ×
$6 \times 5 + 12 \div 4 - 7 = 26$
$6 \times 5 + 3 - 7 = 26$
$30 + 3 - 7 = 26$
$33 - 7 = 26$
$26 = 26$

17. Answer(C):
$4 \times 8 \div 2 =$
Interchanging the sign ÷ and × and two numbers 2 and 8
$4 \div 2 \times 8$
$4/2 \times 8$
$2 \times 8 = 16$

18. Answer(A):
$28 + 4 \times 16 \div 5 - 17 = 127$
Interchanging the number "4" and "5" and sign "+" and "×"
$28 \times 5 + 16 \div 4 - 17 = 127$
$28 \times 5 + 4 - 17 = 127$
$140 + 4 - 17 = 127$
$144 - 17 = 127$
$127 = 127$

19. Answer(A):
$45 - 87 \times 20 \div 5 + 29 = 50$
$45 - 87 \div 29 \times 5 + 20 = 50$ (Apply BODMAS)
$45 - 87/29 \times 5 + 20 = 50$
$45 - 3 \times 5 + 20 = 50$
$45 - 15 + 20 = 50$
$30 + 20 = 50$
$50 = 50$

20. Answer(C):
$52 + 64 - 16 \div 36 \times 6 = 20$
Putting '×' in place of '÷' vice-versa, we get
$52 + 64 - 16 \times 36 \div 6 = 20$ (Apply BODMAS)
$52 + 64 - 16 \times 6 = 20$
$52 + 64 - 96 = 20$
$116 - 96 = 20$
$20 = 20$