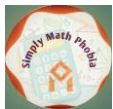


Simplification questions for navodaya exam class 6

A.Simplify the following expression:

- $30 \div 6 + 10 - 2 \times 5$
- $48 \div 16 \times 2 + 17 - 9$
- $(18 + 10) - (3 \times 6)$
- $(10 \times 8) \div (20 \div 5)$
- $\{20 - (24 - 10)\} + 7$
- $\{20 + (15 + 5)\} - 5$
- $12 \times 3 \div 3 \times 4 - 2 + 6$
- $120 - [40 - 2\{10 - 5 - (8 - \overline{4 - 1})\}]$
- $24 - \{5 - 24 \div 6 + (8 - 5)\}$
- $225 \div 5 \times 4 + 8 - 6 \times (-8)$
- $14 - \{15 - 10 - (-6) \div 2(-14 + 29 - \overline{46 - 32})\}$
- $(10 - 8) \times 3 + 6 \div 2 \times (9 + 7)$
- $(9 \times 2) \div (3 + 10 - 6 - 5 + 7)$
- $2 \times (6 - 5 + 4) \div (8 \div (7 - 3))$
- $(3 \times 8) \div (7 + 4 - 2 - 5) \div 6$
- $(5 \times 10) \div (8 + 9 - 6 + 3 - 4)$
- $5 \div (7 - 6) \times (9 + 10) \times (4 - 3)$
- $12 - [6 \div 3 + \{8 \div 2(8 - 6)\}]$
- $[40 \div \{19 - 3(6 - \overline{4 - 1})\}]$
- $[105 \div \{23 + 2(9 - \overline{5 - 2})\}]$



21. $4(10 + 15 \div 5 \times 4 - 2 \times 2)$

22. $37 - [5 + \{28 - (19 - 7)\}]$

23. $18 - [8 \div 2\{8 \div (4 \times 2)\}]$

24. $(120-12) \div (36 \div 3) - 22 + 7$

25. $5 \times 12 \div 10 - (6 \times 4) \div 12$

26. $64 - 3(13 + 2 \times 12 \div 8 - 3 \times 3) + 11$

27. $25 - 4 \times (7 + 5) \div 4 + 3$

28. $((12 + 6) \times 5) - 3 - 4$

29. $(7 + (8 \div 4 + 5)) - 7$

30. $((18 - 6) + (15 \div 3)) + 6$

Ans. (1) 5 (2) 14 (3) 10 (4) 20 (5) 13 (6) 35 (7) 52 (8) 80 (9) 20 (10) 236

(11) 6 (12) 54 (13) 2 (14) 5 (15) 1 (16) 5 (17) 95 (18) 2 (19) 4 (20) 3

(21) 72 (22) 16 (23) 14 (24) -6 (25) 4 (26) 54 (27) 16 (28) 83 (29) 7 (30) 23

B. Simplify the following mathematical expression using BODMAS rule :

(i) $30 \div 6 + 10 - 2 \times 5$

(ii) $48 \div 16 \times 2 + 17 - 9$

(iii) $(18 + 10) - (3 \times 6)$

(iv) $(10 \times 8) \div (20 \div 5)$

(v) $\{20 - (24 - 10)\} + 7$

(vi) $\{20 + (15 + 5)\} - 5$



(vii) $12 \times 3 \div 3 \times 4 - 2 + 6$

(viii) $121 \div 11 + 29 - 2 \times 10$

(ix) $45 - [38 - \{60 \div 3 - (6 - 9 \div 3) \div 3\}]$

(x) $37 - 6 \times 4 + 32 \div 8$

(xi) $27 - [18 - \{16 - (5 - \overline{4 - 1})\}]$

(xii) $100 \times 10 - 100 + 2000 \div 100$

(xiii) $5751 \times \{45 - (90 \div 2)\}$

(xiv) $289 + 153 \div 17 - 8 \times 19$

(xv) $7823 - 128 \div 16 \text{ of } 4 - 3973$

(xvi) $[\{64 - (12 + 13)\} \div 3] + 15$

(xvii) $4 + 4 + 4 + 4 \div 4$

(xviii) $20 - \{18 \div (7 - 2 + 1)\}$

(xix) $2[19 - \{7 + (12 \div 4)\}]$

(xx) $[\{(30 - \overline{9 - 6}) \div 3\} \times 6 + 6]$

(xxi) $[(7 + 6) \times 3] - 8$

(xxii) $(9 \times 5) + 11 - 10$

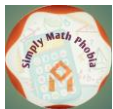
(xxiii) $[(20 - 5) \div 5] \times 2$

(xxiv) $10 + (5 \times 6) - 7$

(xxv) $[(12 - 4) \times 2] + 5 - 3$

(xxvi) $16 \div 4 + 3 \times 5 - 7$

(xxvii) $(8 + 4) \div 2 \times 3$



(xxviii) $25 - 4 \times 4 + 3 \times 6$

(xxix) $15 \div 3 \times (4 - 1)$

(xxx) $9 + 3 \times (6 \div 3) - 2$

Ans. (i) 5 (ii) 14 (iii) 10 (iv) 20 (v) 13 (vi) 35 (vii) 52 (viii) 20 (ix) 26
(x) 17 (xi) 23 (xii) 920 (xiii) 0 (xiv) 146 (xv) 3848 (xvi) 28 (xvii) 13 (xviii)
17 (xix) 18 (xx) 60 (xxi) 31 (xxii) 46 (xxiii) 6 (xxiv) 33 (xxv) 18 (xxvi) 12 (xxvii)
18 (xxviii) 27 (xxix) 15 (xxx) 13

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