

Problems on BODMAS,HCF,LCM

I) Find the following using BODMAS or PEMDAS rule.

- $2 + 24 + 40 + 39 - (33 - 30)$
- $2 + 24 + 40 + 39 - 33 - 30$
- $(34 - 24) + (3 + 39) - (3 + 38)$
- $36 + 39 - (34 - 12) - 20 + 9$
- $235 + 116 - (-100) + 15 \div 3 - 4 + 100$
- $10 \times 10 \times (4 \div 2) - 5 - (-6) + 7 \times 8$
- $96 \div 1 \div 32 + (40 \times 3) - 24$
- $13 \times 4 \times (5 - (-6)) + 2 \times 3 \div 1 + 4 - 6 \div 2$
- $(23 + 32 + 17) + 18 \times 4 \times 9$
- $(67 \div 1 - 3 \times 5) + 12 - 13$
- $(17 - 6 \div 2) \times (12 + 11)$
- $100 \div 5 \times 3 - 46$
- $15^2 - 3 \times 12 \div (3 + 1)$
- $3 [(19 - 15 \div 3) + (4^3 - 2)]$
- $2 + 7\{31 - [4(2 \div 1 + 3)]\}$
- $[(18 + 15) - 3] - 2 \times 5$
- $(10^2 - 4^2) - 50 + 9$
- $9 + (2^3 - 4) + 12 - 7$
- $10 \times (5^2 - 5) - 4$
- $(7 \times 8 - 4) \div (6 - 2)$
- $(6 + 4)^2 + (11 + 10 \div 2)$
- $(19 - 8) \times (10 + 4) + 8^2$
- $(10 + 59 - 3^2) \div (24 - 4)$
- $2 \times (9 \times 5 + 3^2) + 4$

25. $(6 + 3)^2 + (9 - 10 \div 5)$
26. $(9 + 33 - 6) \div 6 - 3^2$
27. $100 - [50 - (20 + 10)]$
28. $2^2\{40 - 2[10 - 2(8 - 6)]\}$
29. $120 - \{5 [8 + 12^2 - (2 \times 9)]\} \div 67$
30. $8 + [(7 - 6) + 6] - 2$
31. $4 \times [6^2 + (1 + 9^2)]$
32. $\{8 \times [4 + (2 \times 9)]\} \times 9$
33. $7^3 + \{7^2 - [2^2 - (9 + 7)]\}$
34. $[3^3 - (2^3 - 3)] + (3 + 82)$
35. $52 \times [93 + (2^3 + 7)]$
36. $\{[(82 \times 5)] + 7\} + (5^3 \times 5^2)$
37. $6^3 \times [32 + (9 + 3)]$
38. $14 + 18 \div 2 \times 18 - 7$
39. $10 - 9 \times 24 \div 8 \times 6$
40. $15 \times 18 + 12 \div 3 + 9$
41. $10 \div 5 + 10 - 9 \times 11$
42. $3 \times 19 \times 14 + 18 \div 2$
43. $(6 + (24 \div 2 + 8))$
44. $(4 + (18 \div 2 + 8))$
45. $(7 - 2) + (7 \times 15 \div 5)$
46. $12 + (4 \times 2) + 21 \div 3$
47. $5^2 + (19 - 6 \times 3)$
48. $4 - (4 - 5)$
49. $2020 - (-2021) + 4044 - 8087$
50. $34 + -3 - 66 - (-100)$

II) Convert the following fractions to simplest form:

1. $\frac{228}{56}$
2. $\frac{2020}{2022}$
3. $\frac{325}{35}$
4. $\frac{178}{26}$
5. $\frac{27}{81}$

III) Add the following fractions using LCM

1. Add $\frac{12}{5} + \frac{13}{3}$
2. Add $\frac{17}{2} + \frac{16}{5} + \frac{32}{3}$
3. Add $\frac{11}{12} + \frac{1}{16}$
4. Add $\frac{3}{4} + \frac{4}{5} + \frac{5}{6}$
5. $\frac{7}{12} + \frac{1}{6} + \frac{2}{3}$
6. $1\frac{1}{4} + \frac{2}{3}$

IV) Find the HCF and LCM of the following pairs and triplets using Prime factorization:

1. 360, 450
2. 232, 32
3. 44, 77, 121
4. 34, 56, 48
5. 32, 244, 432
6. 1095, 1168
7. 201, 385 and 735
8. 30, 72, 432
9. 35, 45, 95