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Practice Questions

Simplifications

Topic - Simplifications

What will come in place of (?)

1) $(23 \times 5) + (24 \times 3) - (32 \times 4) - (35 \times 2) + (97 \times 4) = ?$

1. 377

2. 347

3. 367

4. 397

5. None of these

2) ?% of $(136 \div 17 \times 80) = 320$

1. 52

2. 65

3. 50

4. 40

5. None of these

3) $(\frac{6}{11})$ of $(\frac{3}{8})$ of $(\frac{4}{7})$ of 385 = ?

1. 40

2. 25

3. 45

4. 55

5. None of these

4) $\sqrt{30276} \times \sqrt{576} - (21)^2 + 2480 = ? \times 5$

1. 2254

2. 1174

3. 526

4. 1102

5. None of these

5) $\sqrt{729} \times (1000)^{1/3} \times 5 \times 12 \div 16 = ? - 12.5$

1. 2500

2. 1500

3. 1000

4. 1520

5. None of these

6) $(8880 \div 80) + (2100 \div 35) + (864 \div 24) + 1853 = ?$

1. 2060

2. 1025

3. 1125

4. 2250

5. None of these

7) 40% of $(62 \times 5) + 70 = ?$

1. 200

2. 125

3. 195

4. 115

5. None of these

8) $(92 + 128) \div 15 = 90 - 15\%$ of ?

1. 500

2. 152

3. 445

4. 650

5. None of these

9) $450 \div 15 \times 5 - 130 = \sqrt{?}$

1.652

2.400

3.445

4.562

5. None of these

10) $(?)^2 + 5^3 = 28^2 - 37$

1.50

2.25

3.65

4.14

5. None of these

11) $3420 \div 90 \times 51 = ? + 17$

1.2500

2.1125

3.1920

4.1765

5. None of these

12) $(12 \times 23) \times (23 \div 15) = 12 \times ?$

1.1165

2.6524

3.9652

4.7935

5. None of these

13) $330 \div 11 \times 144 \div 16) = ?$

1.465

2.520

3.270

4.552

5. None of these

14) $20\% \text{ of } 175 + \sqrt[3]{1728} - 50 = ?$

1.5

2.4

3.12

4.2

5. None of these

15) $(\sqrt[3]{729} + 3)^2 = (7)^2 + ?$

1.55

2.95

3.75

4.65

5. None of these

16) $.1170 \div [(3/4) \text{ of } (81 + 43) - 15] = ?$

1)25

2)15

3)45

4)35

5)None of these

17) $(8 \times 8)^3 \div (64 \times 8)^3 \times (4096)^2 = 8^?$

1)8

2)5

3)12

4)15

5)None of these

18. $\sqrt{((27 \div 5 \times ?) \div 15)} = 3.6 \div 4 + 0.3$
- 1)25
 2)12
 3)5
 4)9
 5)66
19. $(813 + 429 + 512 + 353) \div (16 + 28 - ? + 16) = 43$
- 1)8
 2)12
 3)11
 4)25
 5)None of these
20. $(\frac{3}{7})$ of ? $- (\frac{3}{7})$ of $(\frac{14}{27})$ of 1350 = 15% of 700
- 1)845
 2)945
 3)445
 4)654
 5)None of these
21. $(\frac{4}{5})$ of 6625 + 54% of 15400 = (?) + 436
- 1)11652
 2)63521
 3)11520
 4)13180
 5)None of these
22. $1.4 \times 525 + 6.4 \div 0.8 + 425 \times 12.4 = ? - 241$
- 1)5520
 2)6254
 3)6520
 4)9945
 5)None of these
23. $(55 \times 94) + 48\%$ of 950 = $180 \div 4 + ? + 455$
- 1)5689
 2)2520
 3)4520
 4)5126
 5)None of these
24. $\sqrt{7225} + \sqrt[3]{91125} + 42\%$ of 750 = 320 + ?
- 1)225
 2)125
 3)425
 4)365
 5)None of these
25. $64^2 \div 16 \times 9 + 54^2 = 5 \times ? - 2450$
- 1)1534
 2)1256
 3)1125
 4)1400
 5)None of these
26. $\sqrt{1521} \times \sqrt{4356} \div 198 + 1224 = ?$
- 1)1452
 2)1250
 3)1237
 4)1200
 5)None of these

27. $\sqrt{?} \times 16 + 68 \times 18 - 80 \times 11 = 984$

- 1)1600
- 2)400
- 3)500
- 4)1500
- 5)None of these

28. $? + \sqrt{5625} + \sqrt{6889} = 206 \times 8$

- 1)1125
- 2)1490
- 3)1515
- 4)1420
- 5)None of these

29. $\sqrt{1369} \times \sqrt{2704} \div 13 + 1915 = ?$

- 1)1752
- 2)2500
- 3)2240
- 4)2063
- 5)None of these

30) $\sqrt[3]{?} \times 32 + 60 \times 28 - 48 \times 22 = 992$

- 1)75
- 2)64
- 3)42
- 4)55
- 5)None of these

31) $(16)^2 - (22)^2 + (36)^2 + (38)^2 = ?$

- 1)1200
- 2)1142
- 3)1452
- 4)2512
- 5)None of these

32) $72 \times 190 + 26 \times 15 - 150 \times 24 = ?$

- 1)33260
- 2)11256
- 3)10470
- 4)22650
- 5) None of these

33) $48\% \text{ of } 5650 + 55\% \text{ of } 5040 - 4452 = ?$

- 1)1032
- 2)1125
- 3)1025
- 4)1236
- 5) None of these

34) $(24)^3 + (39)^2 - (11)^3 - (40)^2 = ?$

- 1)12414
- 2)11520
- 3)65231
- 4)22560
- 5) None of these

35) $37.5\% \text{ of } 6400 + 48\% \text{ of } 650 - 2574 = ?$

- 1) 152
- 2) 115
- 3) 138
- 4) 145
- 5) None of these

36) $(362.5 \div 12.5 + ?^2) \div 30 = 15/2$

- 1) 20
- 2) 14
- 3) 25
- 4) 15

37) $488 + 2850 - 675 = 740 + ?$

- 1) 1923
- 2) 1125
- 3) 1023
- 4) 1162
- 5) None of these

38) $96\% \text{ of } (5/8) \text{ of } ? = 105\% \text{ of } 2600$

- 1) 2525
- 2) 2556
- 3) 4550
- 4) 1320
- 5) None of these

39) $\sqrt{0.64} + \sqrt{2.56} + \sqrt{1.96} + \sqrt{1.44} = ? \% \text{ of } 100$

- 1) 12
- 2) 10
- 3) 5
- 4) 18
- 5) None of these

40) $[(258)^2 \div 86 \times ?] \div 40 = 1548$

- 1) 120
- 2) 80
- 3) 100
- 4) 150
- 5) None of these

41) $14\% \text{ of } 7200 + 3\% \text{ of } 6400 = ?$

- 1) 1200
- 2) 1652
- 3) 1600
- 4) 1520
- 5) None of these

42) $(20\% \text{ of } 780) + ? + (30\% \text{ of } 90) = 283$

- 1) 65
- 2) 95
- 3) 100
- 4) 120
- 5) None of these

43) $(22.5 \times 24) \div 40 + 51.50 = ? \div 5.25$

- 1) 115.40
- 2) 120.52
- 3) 341.25
- 4) 120
- 5) None of these

44) $(69 \times 41) - 12^2 + 16\% \text{ of } 8400 = ? - 40$

- 1) 1250
- 2) 2250
- 3) 4069
- 4) 3652
- 5) None of these

45) $(15\% \text{ of } 20) \times 23 - 9 \times 6 + 50\% \text{ of } 4820 = ?$

- 1) 1362
- 2) 1452
- 3) 2525
- 4) 2425
- 5) None of these

46) $25\% \text{ of } 4800 + (20 \times 14 \times 14) + 46 = ? + 169$

- 1) 5017
- 2) 5285
- 3) 1635
- 4) 2240
- 5) None of these

47) $(16\% \text{ of } 900) \div 4 + (20 \times 1.5) = ? - (22)^2 + 40\% \text{ of } 140$

- 1) 600
- 2) 582
- 3) 494
- 4) 526
- 5) None of these

48) $(23)^2 + (48)^2 - (32)^2 = (14)^2 + 20\% \text{ of } 520 - ? + 404$

- 1) 1443
- 2) 2250
- 3) 1332
- 4) 1400
- 5) None of these

49) $(?) \div 44 + 40\% \text{ of } 240 = (22 \times 44) + 30\% \text{ of } 380$

- 1) 54,225
- 2) 43,384
- 3) 66,225
- 4) 45,226
- 5) None of these

50) $(40)^4 \times (20)^2 \div (1600)^2 \times (80)^2 = (40)^?$

- 1) 2
- 2) 4
- 3) 8
- 4) 12
- 5) None of these

Explanations

1) Ans. 1

ATQ,

$$115 + 72 - 128 - 70 + 388 = ?$$

$$388 - 11 = ?$$

$$? = 377$$

2) Ans. 3

ATQ,

$$?/100 \times 640 = 320$$

$$? = 320/640 \times 100$$

$$? = 50$$

3) Ans. 3

ATQ,

$$6/11 \text{ of } 3/8 \text{ of } 4/7 \text{ of } 385 = ?$$

$$3 \times 3 \times 5 = ?$$

$$? = 45$$

4) Ans.2

ATQ,

$$174 \times 24 - 441 + 2135 = ? \times 5$$

$$4176 - 441 + 2135 = ? \times 5$$

$$? = 1174$$

5) Ans.3

$$27 \times 10 \times 5 \times 12 \div 16 = ? - 12.5$$

$$? = 1012.5 - 12.5$$

$$? = 1000$$

6) Ans.1

ATQ,

$$111 + 60 + 36 + 1853 = ?$$

$$? = 2060$$

7) Ans.3

ATQ,

$$40\% \text{ of } 310 + 70 = ?$$

$$124 + 70 = ?$$

$$? = 194$$

8) Ans.1

ATQ,

$$225 \div 15 = 90 - 15\% \text{ of } ?$$

$$90 - 15 = 15\% \text{ of } ?$$

$$75 = 15/100 \times ?$$

$$? = 500$$

9) Ans.2

ATQ,

$$30 \times 5 - 130 = \sqrt{?}$$

$$150 - 130 = \sqrt{?}$$

$$\sqrt{?} = 20$$

$$? = 400$$

10) Ans.2

ATQ,

$$(?)^2 + 125 = 784 - 34$$

$$(?)^2 = 750 - 125$$

$$(?)^2 = 625$$

$$? = 25$$

11) Ans.3

ATQ,

$$38 \times 51 = ? + 18$$

$$1938 = ? + 18$$

$$? = 1920$$

12) Ans.4

ATQ,

$$276 \times 345 = 12 \times ?$$

$$95220 = 12 \times ?$$

$$? = 7935$$

13) Ans.3

ATQ,

$$30 \times 9 = ?$$

$$? = 270$$

14) Ans.4

ATQ,

$$35 + 12 - 45 = ?$$

$$? = 2$$

15) Ans.2

ATQ,

$$(9 + 3)^2 = 49 + ?$$

$$12^2 = 49 + ?$$

$$? = 144 - 49$$

$$? = 95$$

16) Ans.2

ATQ,

$$1170 \div [(3/4) \times 124 - 15] = ?$$

$$1170 \div [93 - 15] = ?$$

$$1170 \div 78 = ?$$

$$? = 15$$

17) Ans.2

ATQ,

$$= (8 \times 8)^3 \div (64 \times 8)^3 \times (4096)^2 = 8^x$$

$$= (8^2)^3 \div (8^2 \times 8)^3 \times (8^4)^2 = 8^x$$

$$= 8^6 \div 8^9 \times 8^8 = 8^x$$

$$x = 5$$

18) Ans.4

ATQ,

$$\sqrt{((16/5) \times (x/20))} = 0.9 + 0.3$$

$$(2/5) \sqrt{x} = 1.2$$

$$\sqrt{x} = 6/2 = 3$$

$$x = 9$$

19) Ans.3

ATQ,

$$2107 \div (60 - x) = 43$$

$$(2107/43) = 60 - x$$

$$49 = 60 - x$$

$$x = 60 - 49 = 11$$

20) Ans.2

ATQ,

$$(3/7) \times x - (3/7) \times (14/27) \times 1350 = (15/100) \times 700$$

$$(3x/7) - 300 = 105$$

$$(3x/7) = 105 + 300$$

$$(3x/7) = 405$$

$$x = (405 \times 7/3) = 945$$

21) Ans.4

ATQ,

$$5300 + 8316 = (?) + 436$$

$$? = 13180$$

22) Ans.2

ATQ,

$$735 + 8 + 5270 = ? - 241$$

$$? = 6013 + 241$$

$$? = 6254$$

23) Ans.4

ATQ,

$$5170 + 456 = 45 + ? + 455$$

$$? = 5126$$

24) Ans.2

ATQ,

$$85 + 45 + 315 = 320 + ?$$

$$? = 125$$

25) Ans.1

$$256 \times 9 + 2916 = 5 \times ? - 2450$$

$$2304 + 2916 + 2450 = 5 \times ?$$

$$? = 7670/5$$

$$? = 1534$$

26) Ans.3

ATQ,

$$39 \times 66/198 + 1224 = ?$$

$$13 + 1224 = ?$$

$$? = 1237$$

27) Ans.1

ATQ,

$$\sqrt{?} \times 16 = 984 + 880 - 1224$$

$$\sqrt{?} \times 16 = 640$$

$$\sqrt{?} = 40$$

$$? = 1600$$

28) Ans.2

ATQ,

$$? + 75 + 83 = 1648$$

$$? = 1648 - 158$$

$$? = 1490$$

29) Ans.4

ATQ,

$$37 \times 52/13 + 1915 = ?$$

$$148 + 1915 = ?$$

$$? = 2063$$

30) Ans.2

ATQ,

$$\sqrt[3]{?} \times 32 = 992 + 1056 - 1920$$

$$\sqrt[3]{?} = 128/32$$

$$\sqrt[3]{?} = 4$$

$$? = 64$$

31) Ans.4

ATQ,

$$256 - 484 + 1296 + 1444 = ?$$

$$? = 2512$$

32) Ans.3

ATQ,

$$13680 + 390 - 3600 = ?$$

$$10470 = ?$$

33) Ans.1

ATQ,

$$2712 + 2772 - 4452 = ?$$

$$? = 1032$$

34) Ans.1

ATQ,

$$13824 + 1521 - 1331 - 1600 = ?$$

$$? = 12414$$

35) Ans.3

ATQ,

$$2400 + 312 - 2574 = ?$$

$$? = 138$$

36) Ans.2

ATQ,

$$(29 + ?^2)/30 = 15/2$$

$$29 + ?^2 = 15 \times 15$$

$$?^2 = 196$$

$$? = 14$$

37) Ans.1

ATQ,

$$? = 488 + 2850 - 675 - 740$$

$$? = 1923$$

38) Ans.3

ATQ,

$$96/100 \times 5/8 \times ? = 2730$$

$$? = (2730 \times 100 \times 8)/(96 \times 5)$$

$$? = 4550$$

39) Ans.3

ATQ,

$$0.8 + 1.6 + 1.4 + 1.2 = ?/100 \times 100$$

$$5 = ?/100 \times 100$$

$$? = 5$$

40) Ans.2

ATQ,

$$[3 \times 258 \times ?] \div 40 = 1548$$

$$? = \frac{1548 \times 40}{258 \times 3}$$

$$? = 80$$

41) Ans.1

ATQ,

$$1008 + 192 = ?$$

$$? = 1200$$

42) Ans.3

ATQ,

$$156 + ? + 27 = 283$$

$$? = 283 - 183$$

$$? = 100$$

43) Ans.3

ATQ,

$$13.5 + 51.50 = ?/5.25$$

$$65 = ?/5.25$$

$$? = 341.25$$

44) Ans.2

ATQ,

$$2829 - 144 + 1344 = ? - 40$$

$$? = 4069$$

45) Ans.4

ATQ,

$$3 \times 23 - 54 + 2410 = ?$$

$$? = 2425$$

46) Ans.1

ATQ,

$$1220 + 3920 + 46 = ? + 169$$

$$? = 5017$$

47) Ans.3

ATQ,

$$36 + 30 = ? - 484 + 56$$

$$? = 484 - 56 + 66$$

$$? = 494$$

48) Ans.1

ATQ,

$$1809 = 2744 + 104 - ? + 404$$

$$? = 2744 + 104 + 404 - 1809$$

$$? = 1443$$

49) Ans.2

ATQ,

$$\frac{?}{44} + \frac{40}{100} \times 240 = 968 + \frac{30}{100} \times 380$$

$$\frac{?}{44} + 96 = 968 + 114$$

$$\frac{?}{44} = 986$$

$$? = 43,384$$

50) Ans.2

ATQ,

$$\frac{(40 \times 40 \times 40 \times 40) \times (20 \times 20)}{1600 \times 1600} \times (80 \times 80) = (40)^2$$

$$400 \times 6400 = (40)^2$$

$$2560000 = (40)^2$$

$$? = 4$$