

Simplification Questions for Bank Prelims Exam

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Simplification

Directions: What value will come in place of question mark (?) in the following questions?

1. $2628 \div 73 = ? + 30$

- a) 10
- b) 0
- c) 6
- d) 8
- e) -2

2. $38/270 \times 45/266 \times ? = 19$

- a) 792
- b) 784
- c) 798
- d) 782

e) 794

3. $3125^{0.23} \times 3125^{0.17} = ?$

- a) 125
- b) 1
- c) 5
- d) 25
- e) 625

4. $\sqrt{729} + ? = 4 \frac{1}{5} \text{ of } 25$

- a) 81
- b) 60
- c) 78
- d) 82

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e) 90

5. $29 \times 29 - 1 = ? \times 15$

a) 51

b) 66

c) 47

d) 73

e) 56

6. $49^2 + 47^2 + 40^2 = ?$

a) 6150

b) 6120

c) 6130

d) 6210

e) 6190

7. $115 \times 7 = ? - 180 \times 7$

a) 2145

b) 2105

c) 2125

d) 2115

e) 2065

8. $31^2 - 2401^{\frac{1}{4}} + 343^{\frac{1}{3}} = ?$

a) 982

b) 967

c) 973

d) 943

e) 961

9. $20/2 + 12 \times 5 = ? + 225/5 - 16$

a) 51

b) 35

c) 41

d) 47

e) 31

10. $16.66\% \text{ of } 192 + 77.77\% \text{ of } 252 = ?$

a) 228

b) 234

c) 225

d) 240

e) 216

11. $16/15 \text{ of } 21/28 \text{ of } 321.5 = ?$

a) 257.2

b) 251.4

c) 264.5

d) 224.3

e) None of these

12. $\sqrt{4624} + \sqrt{5776} = (?)^2$

a) 12

b) 22

c) 32

d) 18

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e) 28

13. $\sqrt{400} - \sqrt{256} + \sqrt{529} = ?$

a) 12

b) 22

c) 27

d) 2

e) 37

14. $(?)^2 + 9^3 = 29^2 - 12$

a) 26

b) 6

c) 14

d) 22

e) 10

15. $33 \times 42 + 8 \times 21 = ?$

a) 1567

b) 1576

c) 1555

d) 1544

e) 1554

16. $1610 \div 35 = ? + 11$

a) 32

b) 35

c) 36

d) 39

e) 31

17. $243^{0.39} \times 243^{0.41} = ?$

a) 27

b) 1

c) 3

d) 9

e) 81

18. $(37)^2 - (32)^2 - (29)^2 = ?$

a) -474

b) -500

c) -473

d) -475

e) -496

19. $\sqrt[3]{125} + \sqrt[3]{8000} + \sqrt[3]{1331} = ?$

a) 36

b) 28

c) 42

d) 39

e) 29

20. $\sqrt{121} + ? = 2 \frac{1}{4} \text{ of } 52$

a) 94

b) 106

c) 88

d) 92

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e) 120

21. $132 \div 11 - 15 \times 8 + 128 = ?$

a) 10

b) 20

c) 25

d) 15

e) 30

22. $45\% \text{ of } 300 - ? = 27 \times 40 \div 9$

a) 12

b) 22

c) 15

d) 25

e) 35

23. $65\% \text{ of } 200 + 35\% \text{ of } 400 = ?$

a) 270

b) 310

c) 350

d) 240

e) 210

24. $430 - 15 \times 8 + 4^3 - 13 = ?^2$

a) 21

b) 29

c) 31

d) 19

e) 11

25. $336 \div 24 \times \sqrt[3]{343} + (7)^2 = ?$

a) 151

b) 157

c) 161

d) 167

e) 147

26. $1155 \div 35 = ? + 48$

a) -15

b) -22

c) -14

d) -21

e) -23

27. $59/576 \times 72/413 \times ? = 13$

a) 730

b) 728

c) 732

d) 722

e) 724

28. $\sqrt{2500} - \sqrt{484} - \sqrt{1936} = ?$

a) -10

b) -13

c) -16

d) -9

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e) -15

29. $16^{0.04} \times 16^{0.46} = ?$

a) 256

b) 1

c) 16

d) 64

e) 4

30. $(11)^2 - (17)^2 - (22)^2 = ?$

a) -650

b) -657

c) -644

d) -652

e) -641

31. $\sqrt[3]{9261} - \sqrt[3]{125} + \sqrt[3]{8000} = ?$

a) 36

b) 29

c) 30

d) 31

e) 40

32. $(?)^2 + 9^3 = 29^2 - 12$

a) 22

b) 10

c) 26

d) 14

e) 30

33. $?/4 \text{ of } \sqrt{225} = 45/? \text{ of } \sqrt[3]{1728}$

a) 33

b) 36

c) 27

d) 12

e) 15

34. $165 \times 15 = ? - 210 \times 10$

a) 4655

b) 4605

c) 4525

d) 4615

e) 4575

35. $22.22\% \text{ of } 270 + 77.77\% \text{ of } 342 = ?$

a) 350

b) 338

c) 347

d) 311

e) 326

36. $\sqrt{5329} - \sqrt{4761} - \sqrt{1369} = ?$

a) -33

b) -36

c) -35

d) -39

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e) -37

37. $32^{0.19} \times 32^{0.01} = ?$

a) 1

b) 2

c) 4

d) 8

e) 16

38. $\sqrt[3]{4096} + \sqrt[3]{1000} - \sqrt[3]{27} = ?$

a) 23

b) 19

c) 21

d) 26

e) 25

39. $\sqrt{1681} + ? = 4 \frac{4}{5} \text{ of } 100$

a) 439

b) 426

c) 425

d) 450

e) 453

40. $23 \times 26 - 38 = ? \times 40$

a) 1

b) 11

c) 13

d) 14

e) -5

41. $14^2 - 15^2 + 18^2 - 35 = ?$

a) 250

b) 260

c) 330

d) 290

e) 310

42. $365 + 72 \% \text{ of } 850 = 900 + ?$

a) 84

b) 97

c) 104

d) 77

e) 112

43. $6594 \div 21 \times (0.3)^2 = ?$

a) 28.26

b) 18.46

c) 15.66

d) 22.86

e) 25.36

44. $? \div \sqrt{162} = \sqrt{128} \div ?$

a) 169

b) 144

c) 72

d) 16

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e) 12

45. $16.189 + 31.153 - 23.899 + 7.65 = ?$

a) 30.113

b) 36.063

c) 31.093

d) 33.723

e) 35.443

46. $? \times (242 \div 22) + ? \times (175 \div 35) = 320$

a) 15

b) 10

c) 12

d) 25

e) 20

47. $15 \times 20 + 12 \times 15 + 18 \times 15 + 15 \times 10 = ?$

a) 450

b) 600

c) 750

d) 400

e) 900

48. $(24\% \text{ of } 600) \div (25\% \text{ of } 576) = ?$

a) 1

b) 4

c) 1.5

d) 2

e) 3

49. $30\% \text{ of } 60\% \text{ of } 5000 = ? \times 45$

a) 30

b) 32

c) 18

d) 24

e) 20

50. $15^2 + ?^2 + 5^3 + (?^2 - 10^2) = 1050$

a) 25

b) 12

c) 15

d) 20

e) 17

Solutions with Explanation

1. Answer: C)

$$? = 2628 \div 73 - 30$$

$$= 36 - 30$$

$$= 6$$

2. Answer: C)

$$? = (19 \times 266 \times 270) / (38 \times 45)$$

$$= 19 \times (266/38) \times (270/45) = 19 \times 7 \times 6 = 798$$

3. Answer: D)

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$$? = 3125^{(0.23 + 0.17)} = 3125^{0.40} = 3125^{2/5}$$

$$\text{Since, } 3125^{1/5} = 5, ? = 5^2 = 25$$

4. Answer: C)

$$? = 25 \times (21/5) - \sqrt{729}$$

$$= 5 \times 21 - 27$$

$$= 105 - 27 = 78$$

5. Answer: E)

$$? = (29 \times 29 - 1)/15$$

$$= (841 - 1)/15$$

$$= 840/15 = 56$$

6. Answer: D)

$$? = 49^2 + 47^2 + 40^2$$

$$= 2401 + 2209 + 1600 = 6210$$

7. Answer: E)

$$? = 115 \times 7 + 180 \times 7$$

$$= 805 + 1260 = 2065$$

8. Answer: E)

$$31^2 = 961, 7^4 = 2401, 7^3 = 343$$

$$? = 961 - 7 + 7$$

$$= 961$$

9. Answer: C)

$$? = (20/2) + 12 \times 5 - (225/5) + 16$$

$$= 10 + 60 - 45 + 16$$

$$= 41$$

10. Answer: A)

$$\text{We note that } 16.66\% = 1/6, 77.77\% = 7/9$$

$$\text{So, } ? = 192 \times (1/6) + 252 \times (7/9)$$

$$= (6 \times 32) \times (1/6) + (9 \times 28) \times (7/9)$$

$$= (1 \times 32) + (7 \times 28) = 228$$

11. Answer: A)

$$16/15 \text{ of } 21/28 \text{ of } 321.5 = ?$$

$$16/15 \times 3/4 \times 321.5 = ?$$

$$4/5 \times 321.5 = ?$$

$$? = 257.2$$

12. Answer: A)

$$\sqrt{4624} + \sqrt{5776} = (?)^2$$

$$68 + 76 = ?^2$$

$$? = \sqrt{144}$$

$$? = 12$$

13. Answer: C)

$$? = \sqrt{400} - \sqrt{256} + \sqrt{529}$$

$$= 20 - 16 + 23$$

$$= 27$$

14. Answer: E)

$$(?)^2 = 29^2 - 12 - 9^3$$

$$= 841 - 12 - 729 = 100$$

$$\text{So, } ? = 10$$

15. Answer: E)

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$$? = 33 \times 42 + 8 \times 21$$

$$= 1386 + 168$$

$$= 1554$$

16. Answer: B)

$$? = 1610 \div 35 - 11$$

$$= 46 - 11$$

$$= 35$$

17. Answer: E)

$$? = 243^{(0.39 + 0.41)} = 243^{0.80} = 243^{4/5}$$

$$\text{Since, } 243^{1/5} = 3, ? = 3^4 = 81$$

18. Answer: E)

$$? = 37^2 - 32^2 - 29^2$$

$$= 1369 - 1024 - 841$$

$$= -496$$

19. Answer: A)

$$5^3 = 125, 20^3 = 8000, 11^3 = 1331$$

$$? = \sqrt[3]{125} + \sqrt[3]{8000} + \sqrt[3]{1331}$$

$$= 5 + 20 + 11 = 36$$

20. Answer: B)

$$? = 52 \times (9/4) - \sqrt{121}$$

$$= 13 \times 9 - 11$$

$$= 117 - 11 = 106$$

21. Answer: B)

$$132 \div 11 - 15 \times 8 + 128 = ?$$

$$\Rightarrow 12 - 15 \times 8 + 128 = ?$$

$$\Rightarrow 12 - 120 + 128 = ?$$

$$\Rightarrow 12 - 120 + 128 = ?$$

$$\Rightarrow 140 - 120 = ?$$

$$\therefore ? = 20$$

22. Answer: C)

$$45\% \text{ of } 300 - ? = 27 \times 40 \div 9$$

$$\Rightarrow 135 - ? = 120$$

$$\Rightarrow 135 - 120 = ?$$

$$\therefore ? = 15$$

23. Answer: A)

$$65\% \text{ of } 200 + 35\% \text{ of } 400 = ?$$

$$\Rightarrow 130 + 140 = ?$$

$$\therefore ? = 270$$

24. Answer: D)

$$430 - 15 \times 8 + 4^3 - 13 = ?^2$$

$$\Rightarrow 430 - 120 + 64 - 13 = ?^2$$

$$\Rightarrow 494 - 120 - 13 = ?^2$$

$$\Rightarrow 494 - 133 = ?^2$$

$$\Rightarrow 361 = ?^2$$

$$\therefore ? = 19$$

25. Answer: E)

$$336 \div 24 \times \sqrt[3]{343} + (7)^2 = ?$$

$$\Rightarrow 14 \times 7 + 49 = ?$$

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$$\Rightarrow 98 + 49 = ?$$

$$\therefore ? = 147$$

26. Answer: A)

$$? = 1155 \div 35 - 48$$

$$= 33 - 48$$

$$= -15$$

27. Answer: B)

$$? = (13 \times 413 \times 576) / (59 \times 72)$$

$$= 13 \times (413/59) \times (576/72) = 13 \times 7 \times 8 = 728$$

28. Answer: C)

$$50^2 = 2500, 22^2 = 484, 44^2 = 1936$$

$$? = \sqrt{2500} - \sqrt{484} - \sqrt{1936}$$

$$= 50 - 22 - 44 = -16$$

29. Answer: E)

$$? = 16^{(0.04 + 0.46)} = 16^{0.50} = 16^{1/2}$$

$$\text{Since, } 16^{1/2} = 4, ? = 4^1 = 4$$

30. Answer: D)

$$? = 11^2 - 17^2 - 22^2$$

$$= 121 - 289 - 484$$

$$= -652$$

31. Answer: A)

$$21^3 = 9261, 5^3 = 125, 20^3 = 8000$$

$$? = \sqrt[3]{9261} - \sqrt[3]{125} + \sqrt[3]{8000}$$

$$= 21 - 5 + 20 = 36$$

32. Answer: B)

$$(?)^2 = 29^2 - 12 - 9^3$$

$$= 841 - 12 - 729 = 100$$

$$\text{So, } ? = 10$$

33. Answer: D)

$$?^2 = (4 \times 45 \times \sqrt[3]{1728}) / (\sqrt{225})$$

$$= 4 \times 45 \times 12/15$$

$$= 144 = 12^2$$

$$\text{So, } ? = 12$$

34. Answer: E)

$$? = 165 \times 15 + 210 \times 10$$

$$= 2475 + 2100 = 4575$$

35. Answer: E)

$$\text{We note that } 22.22\% = 2/9, 77.77\% = 7/9$$

$$\text{So, } ? = 270 \times (2/9) + 342 \times (7/9)$$

$$= (9 \times 30) \times (2/9) + (9 \times 38) \times (7/9)$$

$$= (2 \times 30) + (7 \times 38) = 326$$

36. Answer: A)

$$73^2 = 5329, 69^2 = 4761, 37^2 = 1369$$

$$? = \sqrt{5329} - \sqrt{4761} - \sqrt{1369}$$

$$= 73 - 69 - 37 = -33$$

37. Answer: B)

$$? = 32^{(0.19 + 0.01)} = 32^{0.20} = 32^{1/5}$$

$$\text{Since, } 32^{1/5} = 2, ? = 2^1 = 2$$

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38. Answer: A)

$$16^3 = 4096, 10^3 = 1000, 3^3 = 27$$

$$? = \sqrt[3]{4096} + \sqrt[3]{1000} - \sqrt[3]{27}$$

$$= 16 + 10 - 3 = 23$$

39. Answer: A)

$$? = 100 \times (24/5) - \sqrt{1681}$$

$$= 20 \times 24 - 41$$

$$= 480 - 41 = 439$$

40. Answer: D)

$$? = (23 \times 26 - 38)/40$$

$$= (598 - 38)/40$$

$$= 560/40 = 14$$

41. Answer: B)

$$14^2 - 15^2 + 18^2 - 35 = ?$$

$$196 - 225 + 324 - 35 = ?$$

$$260 = ?$$

42. Answer: D)

$$365 + 72 \% \text{ of } 850 = 900 + ?$$

$$365 + 612 = 900 + ?$$

$$977 = 900 + ?$$

$$77 = ?$$

43. Answer: A)

$$6594 \div 21 \times (0.3)^2 = ?$$

$$314 \times 0.3 \times 0.3 = ?$$

$$28.26 = ?$$

44. Answer: E)

$$? \div \sqrt{162} = \sqrt{128} \div ?$$

$$?^2 = \sqrt{(128 \times 162)}$$

$$?^2 = \sqrt{20736}$$

$$?^2 = 144$$

45. Answer: C)

$$16.189 + 31.153 - 23.899 + 7.65 = ?$$

$$31.093 = ?$$

46. Answer: E)

$$? \times (242 \div 22) + ? \times (175 \div 35) = 320$$

$$? \times (11 + 5) = 320$$

$$? = 320 \div 16$$

$$? = 20$$

47. Answer: E)

$$15 \times 20 + 12 \times 15 + 18 \times 15 + 15 \times 10 = ?$$

$$15 \times (20 + 12 + 18 + 10) = ?$$

$$15 \times 60 = ?$$

$$? = 900$$

48. Answer: A)

$$(24\% \text{ of } 600) \div (25\% \text{ of } 576) = ?$$

$$(0.24 \times 600) \div (0.25 \times 576) = ?$$

$$? = 144 \div 144$$

$$? = 1$$

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49. Answer: E)

$$30\% \text{ of } 60\% \text{ of } 5000 = ? \times 45$$

$$0.30 \times 0.60 \times 5000 = ? \times 45$$

$$? = 900 \div 45$$

$$? = 20$$

50. Answer: D)

$$15^2 + ?^2 + 5^3 + (?^2 - 10^2) = 1050$$

$$2 \times ?^2 = 1050 - 225 - 125 + 100$$

$$?^2 = 800/2$$

$$?^2 = 400$$

$$? = \pm 20$$

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