

Simplification Questions for IBPS RRB Clerk Prelims 2020 Exam

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Simplification

Directions (1-50): What value should come in the place of question mark (?) in the following questions?

1. $18/34 + 78/34 + 480/5 + 74/34 = ?$

- a) 108
 - b) 107
 - c) 121
 - d) 101
 - e) 116
2. $6/15$ of $264/792$ of? = 158
- a) 1780
 - b) 1560
 - c) 1540
 - d) 1120

e) 1185

3. $^3\sqrt{10648} * ^3\sqrt{5832} * ^3\sqrt{13824} = ?$

- a) 9504
 - b) 1004
 - c) 9804
 - d) 8504
 - e) 7504
4. 50% of 25% of $4/5$ of? = 640
- a) 6540
 - b) 6600
 - c) 6400
 - d) 5220

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e) 4280

5. $440 + 4444 - 44444 + 44 - 40 + 44044 = ?$

a) 4848

b) 4488

c) 5488

d) 3418

e) 5788

6. $(158+97) \times (11 + 1.2 + 2.8) \times (12) = ?$

a) 56100

b) 47500

c) 45900

d) 76100

e) 63400

7. $\frac{4}{5}$ of 48% of 700 – 15.4 = ?

a) None

b) 152.4

c) 453.4

d) 253.4

e) 615.3

8. $125 - 4^3 + 52^2 = ?$

a) 2694

b) 2465

c) 2765

d) 1786

e) 1456

9. 15% of $28\frac{4}{7}$ % of ? = 240

a) 5800

b) 6300

c) 6100

d) 5600

e) 5300

10. $1674 \div 27 \times 9 + 18 = ?^2$

a) 26

b) 23

c) 24

d) 35

e) 18

11. 320% of 700 – 70% of 320 – 3.2% of 7000 = ?

a) 1792

b) 224

c) -1792

d) -224

e) 1972

12. $(7294 - 3241 + 716) - (3267 + 2425 - 961) = ?$

a) 35

b) 36

c) 37

d) 38

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e) 43

13. $32/35 \div 1/5 \times 7/8 \div 2/35 = ?$

a) 60

b) 80

c) 50

d) 90

e) 70

14. $\sqrt{7} + \sqrt{324} + \sqrt{361} = \frac{1}{5}\text{th of } 290$

a) 400

b) 441

c) 361

d) 484

e) 289

15. $\sqrt{3025} - \sqrt{2116} = ?^2$

a) 81

b) 9

c) 3

d) 27

e) 729

16. $\frac{5}{8}\text{th of } \frac{9}{5}\text{th of } \frac{4}{7}\text{th of } ? = 2610$

a) 4060

b) 4660

c) 6040

d) 4260

e) 4160

17. $8\frac{1}{4} - 12\frac{2}{3} + 11\frac{3}{5} = ? + 7\frac{3}{20}$

a) $1/50$

b) $1/25$

c) $1/30$

d) $1/40$

e) $1/60$

18. $\frac{16}{?} + \frac{48}{2?} = \sqrt{400}$

a) 4

b) 1

c) 3

d) 2

e) 5

19. $38^2 - 37^2 + 6 = ?^2$

a) 0.8

b) 9

c) 0.9

d) 1

e) 8

20. $900^{\frac{1}{2}} + \sqrt[3]{1000} = \sqrt[3]{5832} + ?$

a) 27

b) 25

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c) 22

d) 17

e) 12

21. $24\% \text{ of } 400 + \sqrt{1296} = 34 + ?$

a) 104

b) 96

c) 198

d) 98

e) 100

22. $\frac{16^2 - 68}{4} = 180 - ?$

a) 133

b) 152

c) 263

d) 126

e) 283

23. $\frac{5}{8} + \frac{1}{2} + \frac{3}{4} = ?$

a) $13/4$

b) $15/8$

c) $3/4$

d) $13/9$

e) $12/7$

24. $45 \times 3/5 + ? \div 2 = 105$

a) 172

b) 127

c) 156

d) 165

e) 128

25. $4586 + 4210 = 3598 - 1258 + ?$

a) 6456

b) 7456

c) 5456

d) 4440

e) 5420

26. $28\% \text{ of } 500 - 120 = ? \div 3$

a) 32

b) 60

c) 54

d) 48

e) 64

27. $(12^2 \times 5) \div 16 + 155 = ?$

a) 400

b) 350

c) 540

d) 200

e) 250

28. $(3/8) \times \{(512 - 128)\} = ? \times 12$

a) 10

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b) 18

c) 12

d) 14

e) 16

29. $(18^3 \times 5) \div 18^2 = ? - (27 \times 5)$

a) 295

b) 320

c) 270

d) 225

e) 215

30. $\{(450 \div 5) + 110\} \div 5 = ? \div 3$

a) 100

b) 250

c) 120

d) 160

e) 300

31. $(360 - 15^2) \times 6 - 210 = ? \times 12$

a) 100

b) 50

c) 80

d) 20

e) 40

32. $(45 \times 8) - 16\% \text{ of } 2000 = ? - 260$

a) 100

b) 250

c) 400

d) 450

e) 300

33. $24\% \text{ of } 500 + 30^2 = ? \times 51$

a) 35

b) 20

c) 15

d) 25

e) 30

34. $(3/8) \times 560 + (2/5) \times 350 - (3/4) \times 200 = ?$

a) 100

b) 180

c) 150

d) 240

e) 200

35. $50\% \text{ of } 1200 - 320 = ? + 12\% \text{ of } 1500$

a) 100

b) 120

c) 150

d) 80

e) 140

36. $\sqrt{484} + ? = 4\frac{5}{6} \text{ of } 102$

a) 453

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b) 463

c) 471

d) 477

e) 501

37. $27 \times 27 - 9 = ? \times 40$

a) 30

b) 0

c) -2

d) 18

e) 1

38. $19^2 - 30^2 + 21^2 = ?$

a) -108

b) -68

c) -98

d) -168

e) -88

39. $8 \times 46 - 30 \times 22 = ?$

a) -314

b) -277

c) -288

d) -294

e) -292

40. $80\% \text{ of } 370 + 10\% \text{ of } 510 = ?$

a) 347

b) 447

c) 267

d) 377

e) 367

41. $[(185)^2 \div 25 \times 15] = ?$

a) 25035

b) 25305

c) 20535

d) 24035

e) 26035

42. $45\% \text{ of } 52\% \text{ of } 600 = ?$

a) 144.20

b) 145.10

c) 111.10

d) 140.40

e) 101.20

43. $3\frac{1}{3} + 1\frac{1}{5} + 2\frac{1}{4} + 1\frac{1}{7} = ?$

a) $7\frac{389}{420}$

b) $7\frac{289}{420}$

c) $7\frac{298}{420}$

d) $7\frac{189}{320}$

e) $7\frac{489}{520}$

44. $1\frac{1}{3} \div 1\frac{7}{9} \times 1\frac{5}{7} \div 7\frac{1}{2} = ?$

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a) 6/35

b) 8/105

c) 21/205

d) 31/305

e) 8/205

45. $75157 - ? - 331 - 30 + 530 = 69874$

a) 5452

b) 6252

c) 4425

d) 4525

e) 4441

46. $0.06 \times 0.84 = ? \times 1.2 \times 0.015$

a) 8.2

b) 6.4

c) 2.6

d) 3.8

e) 2.8

47. $8.41 + 6.25 + 0.79 = ? - 0.55$

a) 17

b) 14.9

c) 13.9

d) 16

e) 14.7

48. $\frac{(12+44)}{8} \times 28 = ?^2$

a) 13

b) 16

c) 17

d) 14

e) 19

49. $616 + 472 - 811 + 317 = ? + 576$

a) 28

b) 16

c) 24

d) 18

e) 14

50. $12.5 \times 80 + 37.5 \times 16 - 6.25 \times 112 = ?$

a) 1000

b) 900

c) 2300

d) 600

e) 1300

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Solutions with Explanation

1. Answer: D)

$$(18+78+74)/34+480/5=?$$

$$5+96=?$$

$$101=?$$

2. Answer: E)

$$6/15 \text{ of } 264/792 \text{ of } ? = 158$$

$$?=158*15*792 / (6*264)$$

$$?=1185$$

3. Answer: A)

$$22 \times 18 \times 24 = 9504$$

4. Answer: C)

$$50\% \text{ of } 25\% \text{ of } 4/5 \text{ of } ? = 640$$

$$640*2*4*5/(4) = ?$$

$$6400=?$$

5. Answer: B)

$$440+4444+44+44044 - 44444-40=?$$

$$48972 - 44484=?$$

$$4488=?$$

6. Answer: C)

$$255 \times 15 \times 12=?$$

$$?=45900$$

7. Answer: D)

$$0.8 \times 48 \times 7 - 15.4 = ?$$

$$268.8 - 15.4 = ?$$

$$?=253.4$$

8. Answer: C)

$$125 - 4^3 + 52^2=?$$

$$125-64+2704=?$$

$$2765=?$$

9. Answer: D)

$$\frac{15}{100} \times \frac{200}{700} \times ? = 240$$

$$?=240 \times \frac{7}{2} \times \frac{20}{3}$$

$$?=5600$$

10. Answer: C)

$$1674 \times \frac{1}{27} \times 9 + 18 = ?^2$$

$$62 \times 9 + 18 = ?^2$$

$$?^2 = 576$$

$$?=24$$

11. Answer: A)

$$\frac{320}{100} \times 700 - \frac{70}{100} \times 320 - \frac{3.2}{100} \times 7000 = ?$$

$$2240 - 224 - 224 = ?$$

$$?=1792$$

12. Answer: D)

$$4769-4731=?$$

$$?=38$$

13. Answer: E)

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$$\frac{32}{35} \times 5 \times \frac{7}{8} \times \frac{35}{2} = ?$$

$$? = 70$$

14. Answer: B)

$$\sqrt{?} + 18 + 19 = \frac{290}{5}$$

$$\sqrt{?} = 58 - 37$$

$$\sqrt{?} = 21$$

$$? = 441$$

15. Answer: C)

$$55 - 46 = ?^2$$

$$?^2 = 9$$

$$? = 3$$

16. Answer: A)

$$\frac{5}{8} \times \frac{9}{5} \times \frac{4}{7} \times ? = 2610$$

$$? = 2610 \times \frac{14}{9}$$

$$? = 4060$$

17. Answer: C)

$$\frac{33}{4} - \frac{38}{3} + \frac{58}{5} = ? + \frac{143}{20}$$

$$? = \frac{431}{60} - \frac{143}{20}$$

$$? = \frac{431 - 429}{60} = \frac{1}{30}$$

18. Answer: D)

$$\frac{16}{?} + \frac{24}{?} = 20$$

$$\frac{40}{?} = 20$$

$$? = 2$$

19. Answer: B)

$$38^2 - 37^2 + 6 = ?^2$$

$$\Rightarrow 1444 - 1369 + 6 = ?^2$$

$$\Rightarrow \sqrt{81}$$

$$\Rightarrow 9$$

20. Answer: C)

$$900^{\frac{1}{2}} + \sqrt[3]{1000} = \sqrt[3]{5832} + ?$$

$$\Rightarrow 30 + 10 = 18 + ?$$

$$\Rightarrow 22 = ?$$

21. Answer: D)

$$24\% \text{ of } 400 + \sqrt{1296} = 34 + ?$$

$$\Rightarrow 96 + 36 - 34$$

$$\Rightarrow 98$$

22. Answer: A)

$$\frac{16^2 - 68}{4} = 180 - ?$$

$$\frac{256 - 68}{4} = 180 - ?$$

$$\frac{188}{4} = 180 - ?$$

$$? = 180 - 47 = 133$$

23. Answer: B)

$$5/8 + 1/2 + 3/4 = (5 + 4 + 6)/8 = 15/8$$

24. Answer: C)

$$45 \times 3/5 + ? \div 2 = 105$$

$$27 + ?/2 = 105$$

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$$?/2 = 78$$

$$? = 156$$

25. Answer: A)

$$\Rightarrow 4586 + 4210 = 3598 - 1258 + ?$$

$$\Rightarrow 6456$$

26. Answer: B)

$$28\% \text{ of } 500 - 120 = ? \div 3$$

$$0.28 \times 500 - 120 = ? \div 3$$

$$? = 20 \times 3 = 60$$

27. Answer: D)

$$(12^2 \times 5) \div 16 + 155 = ?$$

$$(144 \times 5) \div 16 + 155 = ?$$

$$? = 200$$

28. Answer: C)

$$(3/8) \times \{(512 - 128)\} = ? \times 12$$

$$(3/8) \times 384 = ? \times 12$$

$$? = 144 \div 12$$

$$? = 12$$

29. Answer: D)

$$(18^3 \times 5) \div 18^2 = ? - (27 \times 5)$$

$$? = (18 \times 5) + 135$$

$$? = 225$$

30. Answer: C)

$$\{(450 \div 5) + 110\} \div 5 = ? \div 3$$

$$(90 + 110) \div 5 = ? \div 3$$

$$? = 40 \times 3$$

$$? = 120$$

31. Answer: B)

$$(360 - 15^2) \times 6 - 210 = ? \times 12$$

$$(360 - 225) \times 6 - 210 = ? \times 12$$

$$? = 600 \div 12$$

$$? = 50$$

32. Answer: E)

$$(45 \times 8) - 16\% \text{ of } 2000 = ? - 260$$

$$360 - 0.16 \times 2000 = ? - 260$$

$$? = 360 - 320 + 260$$

$$? = 300$$

33. Answer: B)

$$24\% \text{ of } 500 + 30^2 = ? \times 51$$

$$0.24 \times 500 + 900 = ? \times 51$$

$$? = (120 + 900) \div 51 = 20$$

34. Answer: E)

$$(3/8) \times 560 + (2/5) \times 350 - (3/4) \times 200 = ?$$

$$(3 \times 70) + (2 \times 70) - (3 \times 50) = ?$$

$$? = 210 + 140 - 150$$

$$? = 200$$

35. Answer: A)

$$50\% \text{ of } 1200 - 320 = ? + 12\% \text{ of } 1500$$

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$$0.50 \times 1200 - 320 = ? + 0.12 \times 1500$$

$$? = 600 - 320 - 180$$

$$? = 100$$

36. Answer: C)

$$? = 102 \times (29/6) - \sqrt{484}$$

$$= 17 \times 29 - 22$$

$$= 493 - 22 = 471$$

37. Answer: D)

$$? = (27 \times 27 - 9)/40$$

$$= (729 - 9)/40$$

$$= 720/40 = 18$$

38. Answer: C)

$$? = 19^2 - 30^2 + 21^2$$

$$= 361 - 900 + 441 = -98$$

39. Answer: E)

$$? = 8 \times 46 - 30 \times 22$$

$$= 368 - 660$$

$$= -292$$

40. Answer: A)

$$? = (80 \times 370/100) + (10 \times 510/100)$$

$$= (29600/100) + (5100/100)$$

$$= 296 + 51 = 347$$

41. Answer: C)

$$[1369 \times 15] = ?$$

$$20535 = ?$$

42. Answer: D)

$$45\% \text{ of } 52\% \text{ of } 600 = ?$$

$$45/100 \times 52/100 \times 600 = ?$$

$$140.40 = ?$$

43. Answer: A)

$$3+1+2+1(1/3+1/5+1/4+1/7) = ?$$

$$7(389/420) = ?$$

44. Answer: A)

$$4/3 \times 9/16 \times 12/7 \times 2/15 = ?$$

$$? = 6/35$$

45. Answer: A)

$$75687 - 70235 = ?$$

$$? = 5452$$

46. Answer: E)

$$? = \frac{0.06 \times 0.84}{1.2 \times 0.015}$$

$$? = 2.8$$

47. Answer: D)

$$? = 15.45 + 0.55$$

$$? = 16$$

48. Answer: D)

$$?^2 = \frac{56}{8} \times 28$$

$$?^2 = 196$$

$$? = 14$$

49. Answer: D)

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$$? = 1405 - 811 - 576$$

$$? = 18$$

50. Answer: B)

$$\frac{100}{8} \times 80 + \frac{300}{8} \times 16 - \frac{100}{16} \times 112 = ?$$

$$? = 1000 + 600 - 700$$

$$? = 900$$

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