

Top Important Simplification & Approximation Questions for IBPS PO Pre 2021 –
English Version

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**Top Important Simplification & Approximation Questions for IBPS PO Pre 2021 –
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Directions (1-5): What value should come in the place of (?) in the following questions?

1) $\sqrt{529} * 4 + 45 \% \text{ of } 80 - 19 * 5 = ?$

- A. 33
- B. 37
- C. 45
- D. 41
- E. 29

2) $36 * 7 + ? \% \text{ of } 348 = 43 * \sqrt{324}$

- A. 120
- B. 130
- C. 140
- D. 150
- E. 110

3) $35 * 8 + 30 \% \text{ of } 160 + ? * 7 = 433$

- A. 12
- B. 15
- C. 18
- D. 21
- E. 24

4) $16 \% \text{ of } 750 + ? \% \text{ of } 400 = 1140$

- A. 320
- B. 375
- C. 280
- D. 255
- E. None of these

5) $(\frac{4}{9}) \text{ of } 3150 + 48 \% \text{ of } 500 = ?^2 + 40$

- A. 45
- B. 40
- C. 42

D. 48

E. None of these

Directions (6-10): What value should come in the place of (?) in the following questions.

6) $40 \% \text{ of } 290 + 140 * \sqrt{16} - 60 \% \text{ of } 650 = ?$

- A.286
- B.296
- C.276
- D.218
- E.264

7) $24 \% \text{ of } 800 = ? + 17 * \sqrt{49} - 1053 \div 39$

- A.90
- B.100
- C.80
- D.70
- E.60

8) $320\% \text{ of } 720 + ? + 220\% \text{ of } 580 = 750\% \text{ of } 620$

- A. 1170
- B. 1090
- C. 1110
- D. 1070
- E. 1105

9) $2580/25 * 55 + 485 - 350 = ?$

- A. 5811
- B. 4820
- C. 6210
- D. 7250
- E. None of these

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10) $50\% \text{ of } (384 - 720/2) * 40 = ?$

- A. 825
- B. 480
- C. 925
- D. 638
- E. 352

Directions (11-15): What value should come in the place of (?) in the following questions.

11) $135\% \text{ of } 1800 + \sqrt{4489} - 56 * 27 = ?$

- A. 985
- B. 865
- C. 950
- D. 988
- E. 892

12) $138\% \text{ of } 2400 + (50/4) \text{ of } 600 = ?/3$

- A. 36673
- B. 33518
- C. 32789
- D. 31763
- E. 32436

13) $20\% \text{ of } 370 + 25\% \text{ of } 120 = ? * 8$

- A. 11
- B. 12
- C. 10
- D. 13
- E. 9

14) $(0.5)^{12} * (0.0625)^{10} \div (0.25)^8 = (0.5)^?$

- A. 28

B. 32

C. 36

D. 40

E. 42

15) $70\% \text{ of } 980 - 200 = ? + 25\% \text{ of } 1740$

- A. 65
- B. 51
- C. 45
- D. 72
- E. 61

Directions (16-20): What value should come in the place of (?) in the following questions?

16) $35\% \text{ of } 480 + ? * 13 = \sqrt{121} * (12\% \text{ of } 275)$

- A. 12
- B. 13
- C. 15
- D. 18
- E. 17

17) $24\% \text{ of } 800 = ? + 17 * 7 - \sqrt{9} * \sqrt{81}$

- A. 90
- B. 100
- C. 80
- D. 70
- E. 60

18) $45/9 * 9/3 \div 1/82 + 6788 + ? = 12450$

- A. 5574
- B. 6854
- C. 3342
- D. 3546

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E. 4432

19) $6775 \times 42 + 8759 \div 95 \times 15 - ? = 155733$

- A. 130200
- B. 135600
- C. 145600
- D. 177800
- E. 164780

20) $45\% \text{ of } 600 - (\sqrt{5476+37}) \times 150 = ?$

- A. -35
- B. -40
- C. -30
- D. -45
- E. None of these

Directions (21-25): What value should come in the place of (?) in the following questions?

21) $35 * 8 + 150 \% \text{ of } 60 + ? = 10 * \sqrt{625}$

- A. 120
- B. -150
- C. -180
- D. -140
- E. -120

22) $20 \% \text{ of } ? - 392 \div 14 - 1925 \div 11 = 52$

- A. 1350

B. 1275

C. 1160

D. 1085

E. None of these

23) $(2 \frac{5}{7}) \div (3 \frac{2}{9}) \times (203/114) \times 32 = ? - 12$

- A. 40
- B. 72
- C. 60
- D. 54
- E. None of these

24) $45\% \text{ of } 1800 - 664 + 24\% \text{ of } 1500 + 124 = ?$

- A. 756
- B. 624
- C. 724
- D. 630
- E. None of these

25) $140 \% \text{ of } 45 + 165\% \text{ of } 80 + 81 = ? * \sqrt{144}$

- A. 30
- B. 23
- C. 14
- D. 26
- E. 18

Answer With Explanation

1) Answer: A

$$\sqrt{529} * 4 + 45 \% \text{ of } 80 - 19 * 5 = ?$$

$$92 + 36 - 95 = ?$$

$$33 = ?$$

2) Answer: D

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$$36 * 7 + ? \% \text{ of } 348 = 43 * \sqrt{324}$$

$$252 + ? \% \text{ of } 348 = 43 * 18$$

$$? \% \text{ of } 348 = 522$$

$$? = 150$$

3) Answer: B

$$35 * 8 + 30 \% \text{ of } 160 + ? * 7 = 433$$

$$280 + 48 + ? * 7 = 433$$

$$? * 7 = 105$$

$$? = 15$$

4) Answer: D

$$16 \% \text{ of } 750 + x \% \text{ of } 400 = 1140$$

$$(16/100)*750 + (x/100)*400 = 1140$$

$$120 + 4x = 1140$$

$$4x = 1140 - 120$$

$$4x = 1020$$

$$x = 255$$

5) Answer: B

$$(4/9) \text{ of } 3150 + 48 \% \text{ of } 500 = x^2 + 40$$

$$(4/9)*3150 + (48/100)*500 - 40 = x^2$$

$$x^2 = 1400 + 240 - 40 = 1600$$

$$x = 40$$

6) Answer: A

$$40 \% \text{ of } 290 + 140 * \sqrt{16} - 60 \% \text{ of } 650 = ?$$

$$116 + 560 - 390 = ?$$

$$? = 286$$

7) Answer: B

$$24 \% \text{ of } 800 = ? + 17 * \sqrt{49} - 1053 \div 39$$

$$192 = ? + 119 - 27$$

$$? = 100$$

8) Answer: D

$$320\% \text{ of } 720 + ? + 220\% \text{ of } 580 = 750\% \text{ of } 620$$

$$2304 + ? + 1276 = 4650$$

$$? = 1070$$

9) Answer: A

$$2580/25 * 55 + 485 - 350 = ?$$

$$\Rightarrow 5676 + 485 - 350$$

$$\Rightarrow 5811$$

10) Answer: B

$$\Rightarrow 50\% \text{ of } (384 - 360) * 40$$

$$\Rightarrow 480$$

11) Answer: A

$$135\% \text{ of } 1800 + \sqrt{4489} - 56 * 27 = ?$$

$$(135/100)*1800 + 67 - 1512 = ?$$

$$? = 985$$

12) Answer: E

$$138\% \text{ of } 2400 + (50/4) \text{ of } 600 = ?/3$$

$$3312 + 7500 = ?/3$$

$$10812 = ?/3$$

$$? = 32436$$

13) Answer: D

$$20\% \text{ of } 370 + 25\% \text{ of } 120 = ? * 8$$

$$74 + 30 = ? * 8$$

$$? = 13$$

14) Answer: C

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$$(0.5)^{12} * (0.0625)^{10} \div (0.25)^8 = (0.5)^?$$

$$(0.5)^{12} * (0.5)^{40} \div (0.5)^{16} = (0.5)^?$$

$$(0.5)^{12 + (40 - 16)} = (0.5)^?$$

$$(0.5)^{36} = (0.5)^?$$

$$? = 36$$

15) Answer: B

$$70\% \text{ of } 980 - 200 = ? + 25\% \text{ of } 1740$$

$$686 - 200 = ? + 435$$

$$? = 51$$

16) Answer: C

$$35\% \text{ of } 480 + ? * 13 = \sqrt{121} * (12\% \text{ of } 275)$$

$$168 + ? * 13 = 363$$

$$? * 13 = 195$$

$$? = 15$$

17) Answer: B

$$24\% \text{ of } 800 = ? + 17 * 7 - \sqrt{9} * \sqrt{81}$$

$$192 = ? + 119 - 27$$

$$? = 100$$

18) Answer: E

$$5 * 246 + 6788 + ? = 12450$$

$$? = 12450 - 8018 = 4432$$

19) Answer: A

$$284550 + 92.2 * 15 - ? = 155733$$

$$? = 284550 + 1383 - 155733 = 130200$$

20) Answer: C

$$45\% \text{ of } 600 - (\sqrt{5476} \div 37) * 150 = ?$$

$$270 - (74/37) * 150 = ?$$

$$270 - 300 = ?$$

$$-30 = ?$$

21) Answer: E

$$35 * 8 + 150\% \text{ of } 60 + ? = 10 * \sqrt{625}$$

$$280 + 90 + ? = 250$$

$$? = -120$$

22) Answer: B

$$20\% \text{ of } x - 392 \div 14 - 1925 \div 11 = 52$$

$$(20/100) * x - (392 / 14) - (1925 / 11) = 52$$

$$(20/100) * x = 52 + 28 + 175$$

$$(20/100) * x = 255$$

$$x = 255 * (100 / 20) = 1275$$

23) Answer: C

$$(2 \frac{5}{7}) \div (3 \frac{2}{9}) * (203/114) * 32 = x - 12$$

$$x = (19/7) * (9/29) * (203/114) * 32 + 12$$

$$x = 60$$

24) Answer: D

$$45\% \text{ of } 1800 - 664 + 24\% \text{ of } 1500 + 124 = ?$$

$$\Rightarrow 45/100 * 1800 - 664 + 24/100 * 1500 + 124 = ?$$

$$=?$$

$$\Rightarrow 810 - 664 + 360 + 124 = ?$$

$$\Rightarrow 630 = ?$$

25) Answer: B

$$63 + 132 + 81 = ? * 12$$

$$? = 23$$

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