

Course: SBI PO Pre

Subject: Approximation

Time: 10 Minutes

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Directions (1-5): निम्नलिखित प्रश्नों में x के स्थान पर क्या मान आएगा:
(नोट- सटीक मान की गणना करना अपेक्षित नहीं है)

Q1. 4200 का 33.02% + $4.01 \div 11.9 \times 9.11 = 301.22$ का x %

(a) 463

(b) 474

(c) 455

(d) 468

(e) 480

L1Difficulty 2

QTagsApproximation

QCreatorDeepak Rohilla

Q2. $124\sqrt{x} + 57.99 \times 2.01 = \frac{3}{4} \times 148.01 + 253.12$

(a) 9

(b) 1

(c) 4

(d) 16

(e) 2

L1Difficulty 2

QTagsApproximation

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Q3. $340.23 \div 2.11 \times 5.01 - \sqrt{x}$ का 1580% = 120% of $\sqrt{x}$

(a) 1600

(b) 900

(c) 2700

(d) 2500

(e) 2000

L1Difficulty 2

QTagsApproximation

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Q4. $(3.91)^3 \times (13.98)^2 \div (28.11)^4 = x^2$

(a) $\sqrt{7}$

(b) $1/\sqrt{7}$

(c) $1/7$

(d) $7/2$

(e) $\sqrt{7}/2$

L1Difficulty 2

QTagsApproximation

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Q5. $(20.11) + (8.03)^2 \div (3.99)^3 + 4.98x^2 = 154.93$ का 19.98 %

(a) 2

(b) $\sqrt{2}$

(c) 4

(d) $\sqrt{3}$

(e) 1

L1Difficulty 2

QTagsApproximation

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Directions (6-15): दिए गए प्रश्नों में प्रश्नवाचक चिह्न (?) के स्थान पर क्या अनुमानित मान आएगा: (सटीक मान की गणना करना अपेक्षित नहीं है)

Q6. $619.992 - 134.99 \div 14.998 - (9.01)^2 = ?$

(a) 720

(b) 530

(c) 650

(d) 690

(e) 490

L1Difficulty 2

QTagsApproximation

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Q7. $449.97 \div 15.02 + 208.08 \div 8.01 - 16.01 = ?$

(a) 120

(b) 60

(c) 100

(d) 80

(e) 40

L1Difficulty 2

QTagsApproximation

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Q8. $4^2 \times \sqrt{226} = 247.998 \div 8.001 + 929.99$

(a) 4

(b) 5

(c) 2

(d) 3

(e) 1

L1Difficulty 2

QTagsApproximation

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Q9. $(140.06 \times 7.99 - 679.92)$ का ? % = 330.01

(a) 75

(b) 90

(c) 80

(d) 50

(e) 60

L1Difficulty 2

QTagsApproximation

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Q10. 859 का 40% + $87.89 \div 7.99 = ?$

(a) 398

(b) 286

(c) 412

(d) 215

(e) 355

L1Difficulty 2

QTagsApproximation

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Q11. $424.99 \times 23.95 \div 8.05 = ?$

(a) 1300

(b) 1225

(c) 1325

(d) 1275

(e) 1375

L1Difficulty 2

QTagsApproximation

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Q12. $25.05 \times 123.95 + 388.999 \times 15.001 = ?$

(a) 9000

(b) 8950

(c) 8935

(d) 8975

(e) 8995

L1Difficulty 2

QTagsApproximation

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Q13. $561 \div 35.05 \times 19.99 = ?$

- (a) 320
- (b) 330
- (c) 315
- (d) 325
- (e) 335

L1Difficulty 2

QTagsApproximation

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Q14. $\sqrt{625.04} \times 16.96 + 136.001 \div 17 = ?$

- (a) 418
- (b) 441
- (c) 425
- (d) 433
- (e) 546

L1Difficulty 2

QTagsApproximation

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Q15. 259.99 का 32.05% = ?

- (a) 92
- (b) 88
- (c) 78
- (d) 90
- (e) 83

L1Difficulty 2

QTagsApproximation

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Solutions

S1. Ans.(a)

$$\approx 33 \times 42 + \frac{4}{12} \times 9 = \frac{x}{100} \times 300$$
$$\approx 1386 + 3 = 3x$$

Sol. $x \approx 463$

S2. Ans.(c)

$$\approx 124\sqrt{x} + 58 \times 2 = \frac{3}{4} \times 148 + 253$$

$$\approx 124\sqrt{x} + 116 = 111 + 253$$

$$= 364$$

$$\approx \sqrt{x} = \frac{248}{124}$$

$$\approx x = 4$$

Sol.

S3. Ans.(d)

$$\approx \frac{340}{2} \times 5 - 15.8\sqrt{x} = 1.2\sqrt{x}$$

$$\approx 850 = 17\sqrt{x}$$

$$\approx \sqrt{x} = 50$$

$$\approx x = 2500$$

Sol.

S4. Ans.(c)

$$\approx \frac{4^3 \times 14^2}{28^4} = x^2$$

$$\approx x = \frac{1}{7}$$

Sol.

S5. Ans.(b)

$$\approx 20 + \frac{64}{4^3} + 5x^2 = \frac{20}{100} \times 155$$

$$\approx 21 + 5x^2 = 31$$

$$\approx x^2 = 2$$

$$\approx x = \sqrt{2}$$

Sol.

S6. Ans.(b)

Sol.

$$? = 619.992 - 134.99 \div 14.998 - (9.01)^2$$

$$? \approx 620 - 135 \div 15 - (9)^2$$

$$? \approx 530$$

S7. Ans.(e)

Sol.

$$? = 449.97 \div 15.2 + 208.08 \div 8.01 - 16.01$$

$$? \approx 450 \div 15 + 208 \div 8 - 16$$

$$= 30 + 26 - 16$$

$$= 30 + 10 = 40$$

S8. Ans.(d)

$$4^2 \times \sqrt{226} = 247.998 \div 8.001 + 929.99$$

$$\text{or, } 4^2 \times \sqrt{225} \approx 248 \div 8 + 930$$

$$\text{Or, } 4^2 \times 15 \approx 31 + 930 = 961$$

$$\text{or, } 4^2 \approx \frac{960}{15} = 64 = 4^3$$

$$\text{or, } 4^2 \approx 4^3$$

$$\therefore ? \approx 3$$

Sol.

S9. Ans.(a)

$$?\% \text{ of } (140.06 \times 7.99 - 679.92)$$

$$= 330.01$$

$$\text{or, } \frac{? \times (140 \times 8 - 680)}{100} \approx 330$$

$$\text{or, } ? \times (1120 - 680) \approx 330 \times 100$$

$$\text{or, } ? \times 440 \approx 33000$$

$$\therefore ? = \frac{33000}{440} = 75$$

Sol.

S10. Ans.(e)

$$? = 40\% \text{ of } 859 + 87.89 \div 7.99$$

$$\approx \frac{40 \times 860}{100} + 88 \div 8$$

$$\approx 344 + 11 = 355$$

Sol.

S11. Ans.(d)

$$? \simeq 425 \times 24 \div 8$$

$$\simeq 1275$$

Sol.

S12. Ans.(c)

$$? \simeq 25 \times 124 + 389 \times 15$$

$$\text{Sol. } \simeq 8935$$

S13. Ans.(a)

$$? \simeq \frac{560}{35} \times 20$$

$$\simeq 320$$

Sol.

S14. Ans.(d)

$$\begin{aligned} ? &\simeq 25 \times 17 + 136 \div 17 \\ &\simeq 433 \end{aligned}$$

Sol.

S15. Ans.(e)

$$\begin{aligned} ? &\simeq \frac{32}{100} \times 260 \\ &\simeq 83.2 \\ &\simeq 83 \end{aligned}$$

Sol.