

Quiz Date: 2nd August 2020

Directions (1-5): In the following questions two equations numbered (I) and (II) . You have to solve both equations and give answer

I. $4x^2 - 15x - 46 = 0$

II. $6y^2 + 35y + 46 = 0$

Q1.

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) If $x = y$ or the relationship cannot be established

I. $2x^2 - x - 10 = 0$

II. $2y^2 - y - 21 = 0$

Q2.

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) If $x = y$ or the relationship cannot be established

I. $x^2 - 3x - 88 = 0$

II. $y^2 + 8y - 48 = 0$

Q3.

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) If $x = y$ or the relationship cannot be established

I. $2x^2 - 9x + 9 = 0$

II. $y^2 - 7y + 12 = 0$

Q4.

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) If $x = y$ or the relationship cannot be established

I. $4x^2 + 19x + 22 = 0$

II. $2y^2 + 11y + 15 = 0$

Q5.

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$

- (d) if $x \leq y$
(e) If $x = y$ or the relationship cannot be established

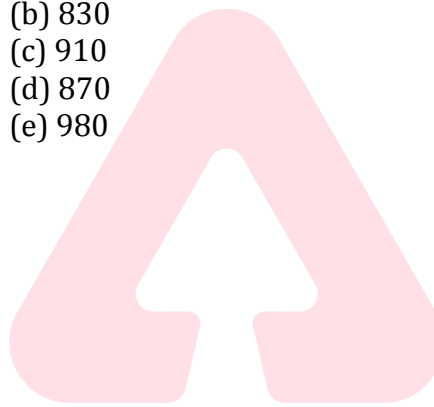
Directions (6-10): What approximate value will come in place of the question-mark (?) in the following questions?

Q6. $\sqrt{2900} \times \sqrt{498} \div \sqrt{251} = ? \div 8$

- (a) 600
(b) 670
(c) 770
(d) 750
(e) 730

Q7. $89.998\% \text{ of } 598.9 + 51.002\% \text{ of } 899.99 - 171.015 = ?$

- (a) 990
(b) 830
(c) 910
(d) 870
(e) 980



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Q8. $\frac{341}{20.002} \div \frac{511}{30.07} \times \frac{179.909}{49.919} = ?$

- (a) 36
(b) 7.2
(c) 72
(d) 3.6
(e) 1.8

Q9. $8999 \div 90.005 \times 95.998 = ? \times 20.999$

- (a) 420
(b) 320
(c) 540

- (d) 525
- (e) 457

$$(39.99)^2 - (9.9)^2 - (15.1)^2 = ?$$

- Q10.
- (a) 1375
 - (b) 1275
 - (c) 1100
 - (d) 1175
 - (e) 1225

Directions (11-15): What will come in place of question mark (?) in the given series?

Q11. 2401, 1617, 1225, 1029, 931, ?

- (a) 900
- (b) 910
- (c) 882
- (d) 880
- (e) 810

Q12. 13, 20, 39, 78, 145, ?

- (a) 234
- (b) 244
- (c) 236
- (d) 248
- (e) 235

Q13. 9, 17, 65, 385, 3073, ?

- (a) 40704
- (b) 73251
- (c) 65506
- (d) 38521
- (e) 30721

Q14. 25, 241, 584, 1096, 1825, ?

- (a) 2625
- (b) 2525
- (c) 2725
- (d) 2825
- (e) 2025

Q15. 11, 30, 87, 258, 771, ?

- (a) 2610
- (b) 2450
- (c) 2310



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- (d) 2730
(e) 2510

Solutions

S1. Ans.(b)

Sol.

$$I. 4x^2 - 15x - 46 = 0$$

$$\Rightarrow 4x^2 - 23x + 8x - 46 = 0$$

$$\Rightarrow (4x - 23)(x + 2) = 0$$

$$\Rightarrow x = -2, \frac{23}{4}$$

$$II. 6y^2 + 35y + 46 = 0$$

$$\Rightarrow 6y^2 + 12y + 23y + 46 = 0$$

$$\Rightarrow (y + 2)(6y + 23) = 0$$

$$\Rightarrow y = -2, -\frac{23}{6}$$

$$x \geq y$$



S2. Ans.(e)

Sol.

$$I. 2x^2 - x - 10 = 0$$

$$\Rightarrow 2x^2 - 5x + 4x - 10 = 0$$

$$\Rightarrow (2x - 5)(x + 2) = 0$$

$$\Rightarrow x = \frac{5}{2}, -2$$

$$II. 2y^2 - y - 21 = 0$$

$$\Rightarrow 2y^2 - 7y + 6y - 21 = 0$$

$$\Rightarrow (2y - 7)(y + 3) = 0$$

$$\Rightarrow y = \frac{7}{2}, -3$$

No relation

S3. Ans.(e)

Sol.

I. $x^2 - 3x - 88 = 0$

$\Rightarrow (x - 11)(x + 8) = 0$

$\Rightarrow x = 11, -8$

II. $y^2 + 8y - 48 = 0$

$\Rightarrow (y + 12)(y - 4) = 0$

$\Rightarrow y = 4, -12$

No relation

S4. Ans.(d)

Sol.

I. $2x^2 - 9x + 9 = 0$

$\Rightarrow 2x^2 - 6x - 3x + 9 = 0$

$\Rightarrow (x - 3)(2x - 3) = 0$

$\Rightarrow x = 3, \frac{3}{2}$

II. $y^2 - 7y + 12 = 0$

$\Rightarrow y^2 - 3y - 4y + 12 = 0$

$\Rightarrow (y - 3)(y - 4) = 0$

$\Rightarrow y = 3, 4$

$y \geq x$

S5. Ans.(e)

Sol.

I. $4x^2 + 19x + 22 = 0$

$\Rightarrow 4x^2 + 8x + 11x + 22 = 0$

$\Rightarrow (x + 2)(4x + 11) = 0$

$\Rightarrow x = -2, -\frac{11}{4}$

II. $2y^2 + 11y + 15 = 0$

$\Rightarrow 2y^2 + 6y + 5y + 15 = 0$

$\Rightarrow (y + 3)(2y + 5) = 0$

$\Rightarrow y = -3, -\frac{5}{2}$

No relation

S6. Ans.(a)

Sol.

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$$\begin{aligned} ? &= \sqrt{2900} \times \sqrt{498} \div \sqrt{251} \times 8 \\ &\approx 54 \times 22 \div 16 \times 8 \\ &\approx 600 \end{aligned}$$

S7. Ans.(b)

Sol.

$$\begin{aligned} ? &= 89.998\% \text{ of } 598.9 + 51.002\% \text{ of } 899.99 - 171.015 \\ &\approx 90\% \text{ of } 600 + 51\% \text{ of } 900 - 171.05 \\ &\approx 540 + 459 - 171 \\ &\approx 830 \end{aligned}$$

S8. Ans.(d)

Sol.

$$\begin{aligned} ? &= \frac{341}{20.002} \div \frac{511}{30.07} \times \frac{179.909}{49.919} = ? \\ &\approx \frac{340}{20} \times \frac{30}{510} \times \frac{180}{50} \\ &\approx 3.6 \end{aligned}$$

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S9. Ans. (e)

Sol.

$$\begin{aligned} ? &= 8999 \div 90.005 \times 95.998 \div 20.999 \\ &\approx 9000 \div 90 \times 96 \div 21 \\ &\approx 9600 \div 21 \\ &\approx 457 \end{aligned}$$

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S10. Ans.(b)

Sol.

$$\begin{aligned} ? &= (39.99)^2 - (9.9)^2 - (15.1)^2 \\ &= (40)^2 - (10)^2 - (15)^2 \\ &= 1275 \end{aligned}$$

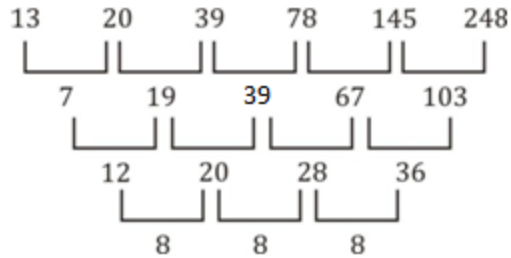
S11. Ans.(c)

Sol.

$$-784, -392, -196, -98, -49$$

S12. Ans.(d)

Sol.



S13. Ans.(e)

Sol.

$$\times 2 - 1, \times 4 - 3, \times 6 - 5, \times 8 - 7, \times 10 - 9$$

S14. Ans.(d)

Sol.

$$+(6)^3, +(7)^3, +(8)^3, +(9)^3, +(10)^3$$

S15. Ans.(c)

Sol.

$$\times 3 - 3, \times 3 - 3, \times 3 - 3, \times 3 - 3$$



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