

MATHS FOUNDATION BATC (SIMPLIFICATION) PART-01



Register Now On Career will App

Join Today For Amazing start

फाउंडेशन है तो ही मुमकिन है

2023 के हर एक **Competitive Exam**
की **Maths** होगी अब आसान

क्या आपकी MATHS की तैयारी पूरी है?

अगर नहीं

तो जुड़िये

Sahil sir के साथ **On**

MATHS FOUNDATION BATCH

Price-~~₹2499~~

₹599/-

only

केवल 5th April 2023
शाम 7 बजे तक

अब कुछ भी नहीं बचेगा
आपकी नजरों से...



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-01

MATHS BY SAHIL SIR



1. $56 \div 7 \times (35 - 45 \div 3) \div 4 = ?$

A. 1.6

B. 48

C. 40

D. 8

2. What is the value of $4 \times [3 \div 4 \{4 \times 3 \div (3 \times 3)\}]$?

$4 \times [3 \div 4 \{4 \times 3 \div (3 \times 3)\}]$ का मान क्या होगा?

A. 3

B. 9

C. 12

D. 4

3. Find the value of $10 - [5 - \{6 - (5 - 4 - 3)\}]$.

$10 - [5 - \{6 - (5 - 4 - 3)\}]$ का मान ज्ञात करें।

A. 13

B. 9

C. 10

D. 12

4. $108 \div 18 \times (55 - 35 \div 5) \div 3 = ?$

A. 96

B. 144

C. 18

D. 120

5. $[\{(161 + (19 - 2) + 1)\} - 3] = ?$

A. 176

B. 171

C. 172

D. 174



6. Find the value of the following:

निम्न का मान ज्ञात कीजिए:

$$10 + \{26 - 15 \times (20 - 5 \div 2 \times ((7 - 5)))\} = ?$$

Handwritten simplification steps:

$$20 - \frac{5}{2} \times 2$$
$$20 - 5 = 15$$

$$10 + 26 - 225$$

$$-189$$



A. -189

B. 198

C. 189

D. -198



7. $154 \div \left[30 - \left\{ 33 - \left(25 - \frac{11}{16} \div \overline{((4 \times 4))} \right) \right\} \right] = ?$

$154 \div 11$
 14

- ✓
- A. 14
 - B. 2
 - C. 22
 - D. 11

8. $(-7) [44 \div \{7 - (-4)\}] = ?$

Handwritten annotations: A red '4' is written above the first '4' in 44, with a red line striking through it. A red curly brace is drawn around the expression $7 - (-4)$, with a red '4' written below it.

- 28

- A. -77
- ✓ B. -28
- C. 28
- D. 77

TIP

9. $\frac{4}{5}$ of 1218 of $\frac{4}{7}$ of ?

174
1218 का $\frac{4}{5}$ का $\frac{4}{7} = ?$

$$\frac{174 \times 16 \times 9}{10} = .8$$

$$\begin{array}{r} 174 \times 32 \\ \hline 10 \end{array} \quad \begin{array}{r} 348 \\ 5920 \\ \hline 5568 \end{array}$$

- A. 415.8
- B. 516.8
- C. 620.8
- ✓ D. 556.8

10. Solve / हल करें।

$$6 + \cancel{6} \div \cancel{6} + 6 \times 6 - 6 = ?$$

1

$$6 + 1 + 36 - 6$$

$$31 + 6 = 37$$

- ✓
- A. 38
 - B. 37
 - C. 36
 - D. 35

11. 78% of 450 + ?% of 250 = 441

450 का 78% + 250 का ?% = 441

$$\frac{900}{2} \times \cancel{78}^{\text{39}} + \frac{500}{2} \times x\% = 441$$

$$\begin{array}{r} 441 \\ 351 \\ \hline 90 \end{array}$$

$$\frac{500}{2} \times x = \overset{18}{90}$$

$$\underline{x = 36}$$



A. 45

B. 50

C. 30

D. 36

12. $(800 \div 64) \times (1296 \div 36) = ?$

$$\frac{25}{2} \times 36$$

$$\frac{25}{2} \times 18$$

$$\frac{50}{2} \times 18 = 450$$

A. 420

B. 460

C. 500

✓ D. 450

13. Solve/हल कीजिये?

$$\cancel{240} \div \cancel{8} \times \cancel{512} \div \cancel{4}$$

$$30 \times 128$$

$$3840$$



A. 3940

B. 3340

C. 3840

D. 4040

14. Solve the following/निम्नलिखित को हल कीजिये-

$$1800 \div (11 \times 24 \div 8 \times 3 - 69)^2$$

$$\begin{matrix} 3 \\ (99 - 69)^2 \end{matrix}$$

$$\frac{1800}{900} = 2$$

- ✓ A. 2
- B. 3
- C. 5
- D. 4

15. Find the value of/का मान ज्ञात कीजिये?

$$30 - (3 \times 4 + \overset{5}{\cancel{15}} \div \cancel{3}) + \overset{4}{\cancel{8}} \times 3 \div \cancel{6}$$

$$30 - 17 + 4$$

$$13 + 4 = 17$$

A. 15

B. 21

C. 19

✓ D. 17

16. $8432 + 937 + 260 - ? = 5605 + 713$

$$\begin{array}{r} 9629 \\ - 5605 \\ \hline 4024 \\ - 713 \\ \hline 3311 \end{array}$$

- A. 3211
- B. 4311
- ✓ C. 3311
- ~~D. 15947~~

17. The value of/ का मान है:

$$3 + [3 \times \{3 - (3 + 3) \div 6\}]$$

Handwritten annotations for the expression $3 + [3 \times \{3 - (3 + 3) \div 6\}]$:

- A red arrow points from the $\{3 - (3 + 3) \div 6\}$ part to the handwritten $6 \div 6 = 1$.
- A red arrow points from the $3 \times$ part to the handwritten $\times 2$.
- The final result 9 is circled in red.

- A. -3
- ✓ B. 9
- C. 6
- D. 3

18. $32 \div 2 \div 2 \div 2 \div 2 = ?$

$$\frac{32}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = 2$$

A.

8

B.

2

C.

32

D.

16

19. $5 + 5 \times 5 \div (5 \times 5) \times 5 = ?$

$$\cancel{5} + \cancel{5} \times \cancel{5} \times 5 = 10$$
$$\quad \quad \quad \underline{5 \times 5}$$

- A. 120
- ✓ B. 10
- C. 130
- D. 50

20. $81 - [20 + 7 \times (30 - 3 \times 9)] = ?$

$81 - 41 = 40$

- ☒ A. 40
- ☐ B. 20
- ☐ C. 30
- ☐ D. 0

21. $-5 \{-5(-5-2)-5\} = ?$

$-5 + 7 - 5$
 $-5(-3)$
 $+15$

- A. 18
- B. -18
- C. -15
- ✓ D. 15



22. Solve the following:

निम्नलिखित को हल करें:

$$(243)^2 \div (27)^2 \times 16 \div 8 = ?$$

$$\frac{\cancel{243}^3 \times \cancel{243}^3}{\cancel{27}^3 \times \cancel{27}^3} \times \frac{16}{8}$$

$$81 \times 2 = 162$$

- A. 70
- B. 1
- ✓ C. 162
- D. 81

23. Solve./हल करें।

$$49 + 1331 \div 121 - 72 - 5 = ?$$

$$49 + \frac{1331}{121} - 72 - 5$$

$$60 - 77 \\ - 17$$

- A. -27
- ✓ B. -17
- C. 17
- D. 0

24. Solve the following:

निम्नलिखित को हल करें:

$$11 + \cancel{11} \div \cancel{11} + 11 \times 11 - 11 = ?$$

$$\cancel{11} + 1 + 121 - \cancel{11}$$

122

- A. 1
- ✓ B. 122
- C. 0
- D. 132

25. Simplify: $245 - [135 - \{84 \div 4 \text{ of } 3 - (11 - 12 \div 3)\}]$

सरल कीजिए: $245 - [\underline{135} - \{84 \div 4 \text{ of } 3 - (11 - 12 \div 3)\}]$

$$\begin{array}{r} 245 \\ - 135 \\ \hline 110 \\ \hline \end{array}$$

Handwritten annotations for the expression $84 \div 4 \text{ of } 3 - (11 - 12 \div 3)$:

- A red '7' is written below the '4'.
- A red '18' is written below the '3'.
- A red '0' is written below the '12'.
- A red '4' is written below the '3' in the parentheses.
- A red '7' is written below the '11'.

- ☒ A. 110
- ☐ B. 100
- ☐ C. 90
- ☐ D. 120

26. Solve the following:

निम्नलिखित को हल कीजिये:

$$80 \div (16 \div 2) + \{[(6 \times 5) - 15 \times 2 + 4] - 12\}$$

$$10 - 8$$

$$2$$

$$\cancel{30} - \cancel{30} + 4 - 12$$
$$-8$$

- A. -62
- ✓ B. 2
- C. -17
- D. 148

27. Simplify: /सरल करे:

$$1800 \div 10 \times \{45 \div (17 - 2)\} \times 2 + \{-2(1 + 2)\}$$

Handwritten red annotations: A red '3' is written above the 45, and a red 'is' is written below the 17. Below the expression, '+ - 6' is written in red.

$$\frac{180 \times 6 - 6}{1080 - 6}$$

- A. 180
- B. 0
- ☒ C. 1074
- D. 114



28. If $P = 2 + 0.2 \div (0.2 \times 2) - 1 \times 2$, $Q = 2 - 0.2 \div (0.2 \times 2) - \frac{1}{2} \times 2$,
find the value of $\frac{P}{Q}$.

यदि $P = 2 + 0.2 \div (0.2 \times 2) - 1 \times 2$, $Q = 2 - 0.2 \div (0.2 \times 2) - \frac{1}{2} \times 2$ है,
तो $\frac{P}{Q}$ का मान ज्ञात कीजिए।

$$P = \cancel{2} + \frac{1}{2} - \cancel{2} = \frac{1}{2}$$

$$Q = 2 - \frac{0.2}{\cancel{0.4} \times 2} - 1 = \frac{1}{2}$$

- A. 0.5
- ✓ B. 1.0
- C. 1.5
- D. -0.5

29. If $P = 0.3 \times 0.3 + 0.03 \times 0.03 - 0.6 \times 0.03$ and $Q = 0.54$, then what is $\frac{P}{Q}$ equal to?

यदि $P = 0.3 \times 0.3 + 0.03 \times 0.03 - 0.6 \times 0.03$ और $Q = 0.54$, तब $\frac{P}{Q}$ किसके समतुल्य है?

$$P = (0.3)^2 + (0.03)^2 - 2 \times 0.3 \times 0.03$$

$$P = a^2 + b^2 - 2ab = (a - b)^2$$

$$P = [0.3 - 0.03]^2 = (\underline{0.27})^2 \Rightarrow 0.0729$$

$0.30 - 0.03$

$$\frac{0.27 \times 0.27}{0.54} = 0.135$$

A.

4.5

B.

0.45

C.

4.05

D.

0.135 ✓

30. If $3x + 4 \times 8 \div 9 = x \div 3 - 1$ then find the value of x ?

यदि $3x + 4 \times 8 \div 9 = x \div 3 - 1$ है तो x का मान ज्ञात कीजिये?

$$3x + 4 \times \frac{8}{9} = \frac{x}{3} - 1$$

$$\frac{32}{9} + 1 = \frac{x}{3} - 3x$$

$$\frac{41}{9} = -\frac{8x}{3}$$

$$x = -\frac{41}{24}$$

- A. 2
- B. $\frac{21}{24}$
- C. 1
- ✓ D. $-\frac{41}{24}$



Answer sheet:

| | | | | | | | | | |
|-----|---|-----|---|-----|---|-----|---|-----|---|
| 1. | C | 2. | D | 3. | A | 4. | A | 5. | A |
| 6 | A | 7. | A | 8. | B | 9. | D | 10. | B |
| 11. | D | 12. | D | 13. | C | 14. | A | 15. | D |
| 16. | C | 17. | B | 18. | B | 19. | B | 20. | A |
| 21. | D | 22. | C | 23. | B | 24. | B | 25. | A |
| 26 | B | 27. | C | 28. | B | 29. | D | 30. | D |



Algebraic Expression Based Simplification

$$* (a+b)^2 = a^2 + b^2 + 2ab$$

$$* (a-b)^2 = a^2 + b^2 - 2ab$$

$$* (a+b)^3 = a^3 + b^3 + 3ab(a+b)$$

$$* (a-b)^3 = a^3 - b^3 - 3ab(a-b)$$

$$* a^3 + b^3 = (a+b)(a^2 - \underline{ab} + b^2)$$

$$* a^3 - b^3 = (a-b)(a^2 + \underline{ab} + b^2)$$

$$* a^2 - b^2 = (a+b)(a-b)$$

$$* (a+b+c)^2 = a^2 + b^2 + c^2 + 2(ab+bc+ca)$$

$$* a^3 + b^3 + c^3 - 3abc = (a+b+c)[a^2 + b^2 + c^2 - ab - bc - ca]$$

STEP BY STEP EXPRESSION

Ex. $(793 + 337)^2 - (793 - 337)^2 = x \times \overset{a}{793} \times \overset{b}{337}$

$x = ? \Rightarrow \textcircled{4}$

Concept :- $(a+b)^2 - (a-b)^2 = \underline{4ab}$..

Process.

$$a^2 + b^2 + 2ab - [a^2 + b^2 - 2ab]$$
$$\cancel{a^2} + \cancel{b^2} + \underline{2ab} - \cancel{a^2} - \cancel{b^2} + \underline{2ab}$$

Example.

$$\underline{[0.397 + 0.192]^2 - [0.397 - 0.192]^2} =$$

Ans.

$$\textcircled{4 \times 4}$$

$$0.397 \times \underline{0.048}$$

$$\frac{4 \times \cancel{0.397} \times \cancel{0.192}}{\cancel{0.397} \times \cancel{0.048}} = 16$$

Exo.

$$\begin{aligned} & \text{--- 4ab} \\ & \frac{[97-63]^2 - [97+63]^2}{3 \times 97 \times 63} = \text{Ans. } -4/3 \\ & \text{ab} \end{aligned}$$

$$\# (a+b)^2 + (a-b)^2 = 2(a^2 + b^2)$$

Proof.

$$a^2 + b^2 + \cancel{2ab} + a^2 + b^2 - \cancel{2ab} = 2[a^2 + b^2]$$

Example. $(0.03 + 0.01)^2 + (0.03 - 0.01)^2 \Rightarrow \text{Ans.} = \frac{26}{2}$

$$\frac{2[0.0009 + 0.0004]}{0.0003} \quad 0.03 \times 0.01$$

Example:-

$$(333+117)^2 - 2(333^2 + 117^2) = -(\alpha)^2$$

$(a-b)^2$

$$\boxed{2+1+6}$$

$$(a+b)^2 + (a-b)^2 = 2(a^2 + b^2)$$

$$(a+b)^2 - 2(a^2 + b^2) = -(a-b)^2$$

$$\begin{array}{r} 333 \\ - 117 \\ \hline 216 \end{array}$$

α के अंकी का योग
digit Sum of α

⑨ ★

Concept

$$a^2 - b^2 = (a+b)(a-b)$$

Ex. $(1-x)(1+x)(1+x^2)(1+x^4)$

$$(1-x^2)$$

$$1-x^4$$

$$1-x^8$$

$$(x^4)^2 \Rightarrow x^{4 \times 2} = x^8$$

$$(x^8)^2 = x^{16}$$

$$(x^{16})^2 = x^{32}$$



Ex. $\frac{a^4 - b^4}{(a+b)^2} \Rightarrow \frac{(a^2)^2 - (b^2)^2}{(a+b)^2} = \frac{(a^2 + b^2)(a^2 - b^2)}{(a+b)^2}$

$$\frac{(a^2 + b^2) \cancel{(a+b)} (a-b)}{(a+b)^{\cancel{2}}}$$

$$\frac{(a^2 + b^2)(a-b)}{a+b}$$

Q. $(x-1)(x+1)(x^2+1)(x^4+1)(x^8+1)(x^{16}+1) + 1$

$x^2 - 1$

$x^4 - 1$

$x^8 - 1$

$x^{16} - 1$

$x^{32} - 1 + 1$

x^{32}



Q. $\underline{2} (2^2+1)(2^4+1)(2^8+1) = (2^2-1)(2^2+1)(2^4+1)(2^8+1)$

$\frac{(2-1)(2+1)(2^2+1)(2^4+1)(2^8+1)}{(2-1)}$

$\frac{2^4-1}{2^8-1}$

$\frac{2^{16}-1}{1}$

MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02

MATHS BY SAHIL SIR



MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02

MATHS BY SAHIL SIR



31. $(24)^2 - (18)^2 = ?$

A. 252

B. 336

C. 242

D. 284

32. $(36)^2 - (35)^2 = ?$

A. 73

B. 75

C. 72

D. 71

33. $(25.732)^2 - (15.732)^2 = ?$

A. 4.1464

B. 41.464

C. 414.64

D. 4164.4

34. $(254)^2 - (252)^2 = ?$

A. 872

B. 506

C. 1012

D. 984

35. $32 \times 32 + 1476 + 18 \times 18 = ? + 324$

A. 2000

B. 2500

C. 3000

D. 3600

36. $10.5 \times 10.5 + 7.5 \times 7.5 = ? - 157.5$

A. 256

B. 324

C. 400

D. 484

37. $\frac{(28.4)^2 - (24.4)^2}{28.4 - 24.4} = ?$

A. 52

B. 8

C. 52.8

D. 4



38. $\frac{(256 + 132)^2 + (256 - 132)^2}{256 \times 256 + 132 \times 132} = ?$

A. 1

B. 2

C. 388

D. 124

39. $\frac{(869 + 674)^2 - (869 - 674)^2}{869 \times 674} = ?$

A. 1543

B. 195

C. 2

D. 4

40. $\left(\frac{375 \times 375 \times 375 + 225 \times 225 \times 225}{375 \times 375 + 225 \times 225 - 375 \times 225} \right) = ?$

A. 300

B. 500

C. 150

D. 600

41. $\left(\frac{158 \times 158 + 158 \times 153 + 153 \times 153}{158 \times 158 \times 158 - 153 \times 153 \times 153} \right) = ?$

A.

$\frac{1}{5}$

B.

311

C.

$\frac{1}{311}$

D.

5

42. $\frac{(216+144)^2 - (216-144)^2}{(432 \times 288)} = ?$

A. 72

B. 4

C. 1

D. 360



43. $\frac{5.47 \times 5.47 - 4.53 \times 4.53}{0.94} = ?$

A. 0.94

B. 10

C. 4

D. 1



44. Find the value of $\frac{0.3^4 - 0.2^4}{0.3^2 + 0.2^2}$?

$\frac{0.3^4 - 0.2^4}{0.3^2 + 0.2^2}$ का मान ज्ञात कीजिये ?

A. 0.05

B. 0.15

C. 0.51

D. 0.5



45. Solve / हल कीजिये

$$8.75 \times 8.75 - 135.625 + 7.75 \times 7.75 = ?$$

A. 3

B. 1

C. 4

D. 2

46. Find the value of $\frac{515.86 \times 515.86 - 314.87 \times 314.87}{200.99}$

$\frac{515.86 \times 515.86 - 314.87 \times 314.87}{200.99}$ का मान ज्ञात कीजिए

A. 200.19

B. 201

C. 83.073

D. 830.73



$$47. \frac{.356 \times .356 - 2 \times .356 \times .106 + .106 \times .106}{.632 \times .632 + 2 \times .632 \times .368 + .368 \times .368} = ?$$

A. .0345

B. .0625

C. .25

D. .0765

48. Find the value of 1093×1093 .
 1093×1093 का मान ज्ञात कीजिए।

A. 1194649

B. 1162481

C. 1424649

D. 1428481

49. $\frac{(36.54)^2 - (3.46)^2}{?} = 40$

A. 3.308

B. 4

C. 33.08

D. None of these



50. $\frac{2.3 \times 2.3 \times 2.3 - 1}{2.3 \times 2.3 + 2.3 + 1} = ?$

A. 0.3

B. 1.3

C. 2.2

D. 3.3



51. $\frac{6.5 \times 4.7 + 6.5 \times 5.3}{1.3 \times 7.9 - 1.3 \times 6.9} = ?$

A.

3.9

B.

39

C.

34.45

D.

50

52. $1.07 \times 65 + 1.07 \times 26 + 1.07 \times 9 = ?$

A. 10.73

B. 10.7

C. 107

D. 1.07

53. $\frac{69842 \times 69842 - 30158 \times 30158}{69872 - 30158} = ?$

A. 100000

B. 39684

C. 69842

D. 30158

54. $\frac{(0.06)^2 + (0.47)^2 + (0.079)^2}{(0.006)^2 + (0.047)^2 + (0.0079)^2} = ?$

A.

0.1

B.

10

C.

100

D.

10000



55. $\sqrt{?} + 84 = \sqrt{625}$

A. 25

B. 26

C. 125

D. None of these

56. Which of the following numbers is the square root of 35721?

निम्न में से कौन-सी संख्या 35721 का वर्गमूल है?

A. 171

B. 201

C. 179

D. 189



57. Which of the following numbers is the square root of 6084?

निम्न में से कौन-सी संख्या 6084 का वर्गमूल है?

A. 68

B. 78

C. 72

D. 79



58. Which of the following numbers is the square root of 16129?

निम्न में से कौन-सी संख्या 16129 का वर्गमूल है?

A. 123

B. 133

C. 127

D. 121

59. Find the number of digits in square root of 21025
21025 के वर्गमूल में अंकों की संख्या बताये।

A. 4

B. 5

C. 2

D. 3

60. Find the number of digits in square root of 9604
9604 के वर्गमूल में अंकों की संख्या बताये।

A. 2

B. 3

C. 1

D. 4



Answer sheet:

| | | | | | | | | | |
|-----|---|-----|---|-----|---|-----|---|-----|---|
| 31. | A | 32. | D | 33. | C | 34. | C | 35. | B |
| 36. | B | 37. | C | 38. | B | 39. | D | 40. | D |
| 41. | A | 42. | C | 43. | B | 44. | A | 45. | B |
| 46. | D | 47. | B | 48. | A | 49. | C | 50. | B |
| 51. | D | 52. | C | 53. | A | 54. | C | 55. | D |
| 56. | D | 57. | B | 58. | C | 59. | D | 60. | A |

Tip

$$5 \rightarrow 10/2$$

$$25 \rightarrow \frac{100}{4}$$

$$125 \rightarrow \frac{1000}{8}$$

$$625 \rightarrow \frac{10000}{16}$$

$$45 \rightarrow 90/2$$

$$55 \rightarrow 110/2$$