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फाउंडेशन है तो ही मुमकिन है

2023 के हर एक Competitive Exam की Maths होगी अब आसान

क्या आपकी MATHS की तैयारी पूरी है ?

आगर नहीं तो जुड़िये Sahil sir के साथ On MATHS FOUNDATION BATCH



अब कुछ भी नहीं बचेगा आपकी नजरों से...









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

A. 1.6

B. 48

c. 40



2. What is the value of 4 × [3 ÷ 4 {4 × 3 ÷ (3 × 3)}]? 4 × [3 ÷ 4 {4 × 3 ÷ (3 × 3)}] का मान क्या होगा?

A. 3

В. 9

c. 12





A. 13

в. 9

c. 10



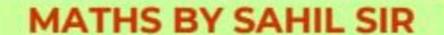


4.
$$108 \div 18 \times (55 - 35 \div 5) \div 3 = ?$$

A. 96

В. 144

c. 18





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

A. 176

B. 171

c. 172





6. Find the value of the following:

निम्न का मान ज्ञात कीजिए:

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

$$10 + 26 - 25$$

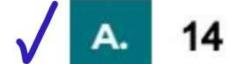
$$10 + 26 - 25$$





7.
$$154 \div \left[30 - \left\{33 - \left(25 - \frac{176}{16} \div \overline{\left((4 \times 4)\right)}\right)\right\}\right] = ?$$

19







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

A. -77

B. -28

c. 28





4 of 1010 of 4 of 2

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

$$\frac{1244}{1218}$$
 an $\frac{4}{5}$ an $\frac{4}{7}$ = ?

$$\frac{174\times16\times3}{4\times16} = .8$$

A. 415.6

В. 516.

c. 620.

D. 556.8



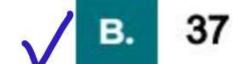


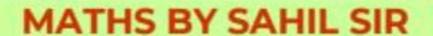
10. Solve / हल करें।

$$6 + 6 + 6 + 6 + 6 + 6 = ?$$

$$6 + 1 + 36 - 6$$
 $31 + 6 = 37$

A. 38







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

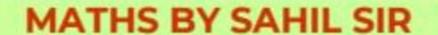
$$450 \text{ at } 78\% + 250 \text{ at } ?\% = 441$$

 $900 \times 78\% + 500 \times 2\% = 441$
 $351 \times 200 \times 2\% = 441$

A. 45

В. 50

c. 30





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

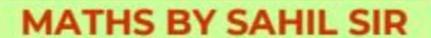
$$\frac{35 \times 18}{50 \times 189} = 450$$

A. 420

B. 460

c. 500

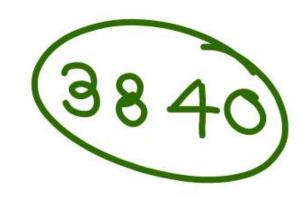
√ D. 450





13. Solve/हल कीजिये?

30X 188



A. 3940

В. 3340

C. 3840



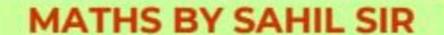


14. Solve the following/निम्नलिखित को हल कीजिये-

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









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

$$30 - (3 \times 4 + 15 \div 3) + 8 \times 3 \div 6$$

$$30-17+4$$
 $13+4=17$

A. 15

B. 21

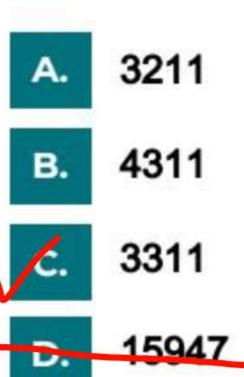
c. 19

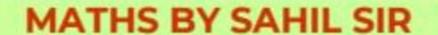




16.
$$8432 + 937 + 260(-?) = 5605 + 713$$

9629
-5605
-4024
-3311







17. The value of/ का मान है:

A. -3



c. 6





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



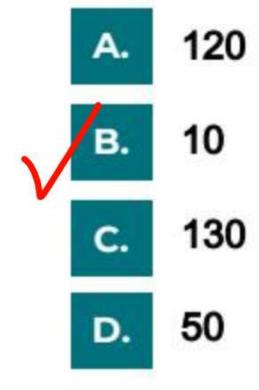






19.
$$5 + 5 \times 5 \div (5 \times 5) \times 5 = ?$$

$$5 + 5 \times 5 \times 5 = 10$$







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

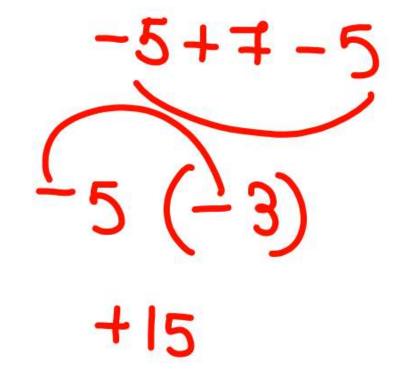
 $81 - 41 = 40$







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



A. 18

В. -18

c. -15





22. Solve the following:

निम्नलिखित को हल करें:

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

$$81xg = (16g)$$

A. 70

В. 1

/c. 162

D.

81





23. Solve./हल करें।

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



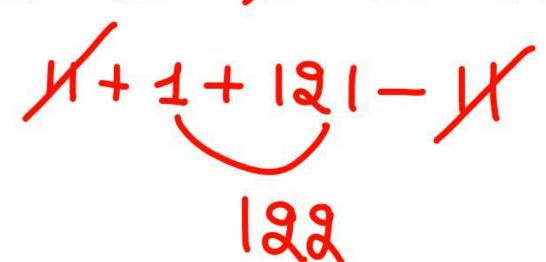




24. Solve the following:

निम्नलिखित को हल करें:

$$11 + 11 \div 11 + 11 \times 11 - 11 = ?$$



A. 1



c. 0













26. Solve the following:

निम्नलिखित को हल कीजिये:

80 ÷ (16 ÷
$$\frac{2}{3}$$
) + {[(6 × 5) – 15 × 2 + 4] – 12}

2





$$180 \times 6 - 6$$

180

В.

1074



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

यदि P = 2 + 0.2
$$\stackrel{\bullet}{\leftarrow}$$
 (0.2 × 2) - 1 × 2, Q = 2 - 0.2 $\stackrel{\bullet}{\leftarrow}$ (0.2 × 2) - $\frac{1}{2}$ × 2 है, तो $\frac{P}{o}$ का मान ज्ञात कीजिए।

$$P = 24 + \frac{1}{3} - 24 = \frac{1}{3}$$

$$Q = 2 - 0.21 - 1 = \frac{1}{3}$$

$$Q = 3 - 0.21 - 1 = \frac{1}{3}$$







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

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

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

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

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





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

$$\frac{38}{9} + 1 = \frac{x}{3} - 3x$$

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

$$\frac{41}{39} = -8x \qquad x = -41$$

B.
$$\frac{21}{24}$$

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



Answer sheet:

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





MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02



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

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

$$* (a+b)_3 = a_3 + b_3 + 3ab(a+b)$$

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

$$4 + b_3 = (a+b)(a_3 - a_4 + b_5)$$

$$a^3-b^3=(a-b)(a^2+ab+b^2)$$

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

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

+ $a(ab+bc+ca)$

MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02



STEP BY STEP EXPRESSION

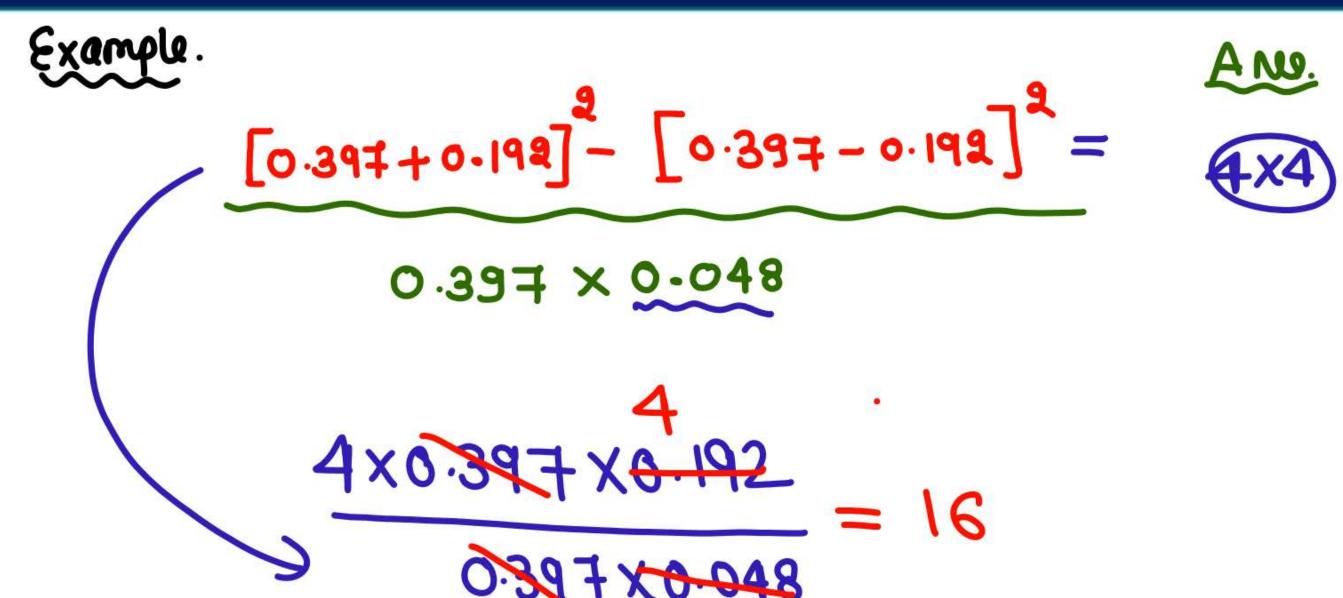
$$\frac{\xi_{X}}{(393+337)^{2}} - (393-337)^{2} = \chi_{X} + \chi_$$

Concept:
$$-(a+b)^2 - (a-b)^2 = 4ab$$

$$\frac{900085}{92+62+800-62+62-800}$$

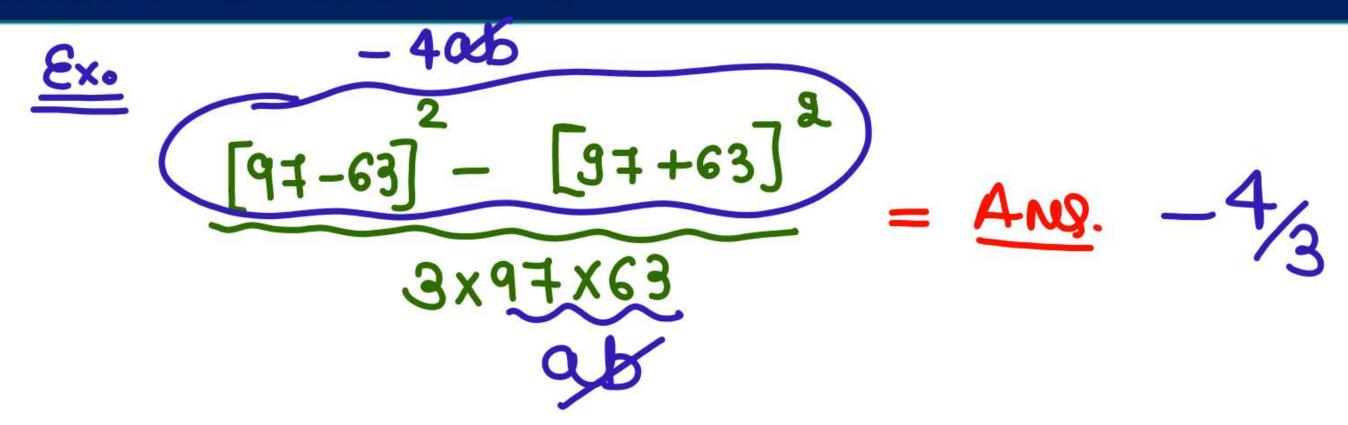
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MATHS FOUNDATION BATCH (SIMPLIFICATION) PART-02



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

$$a^2+b^2+3ab+a^2+b^2-3ab=(a[a^2+b^2])$$

$$(0.03 + 0.08)^2 + (0.03 - 0.03)^2 \Rightarrow Aw = 26$$

0.0003



$$(333+117)^{2}-2(333^{2}+117)=-(7)$$

$$\frac{(a+b)^2 - a(a^2+b^2) = -(a-b)^2 - 333}{(a+b)^2 + (a-b)^2 = a(a^2+b^2)} - \frac{333}{333}$$

उद्य अंकी का थोग digit Sum of oc

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

$$\mathbb{R}^{\times}$$
 $(1-x)(1+x)(1+x_{5})(1+x_{4})$

$$\left(\frac{1-x^2}{1-x^4}\right)$$

$$\left(x^4\right)^2 \Rightarrow x^4 = x^8$$

$$(\infty^8)^2 = \infty^{16}$$

$$\left(x^{16}\right)^2 = x^{33}$$

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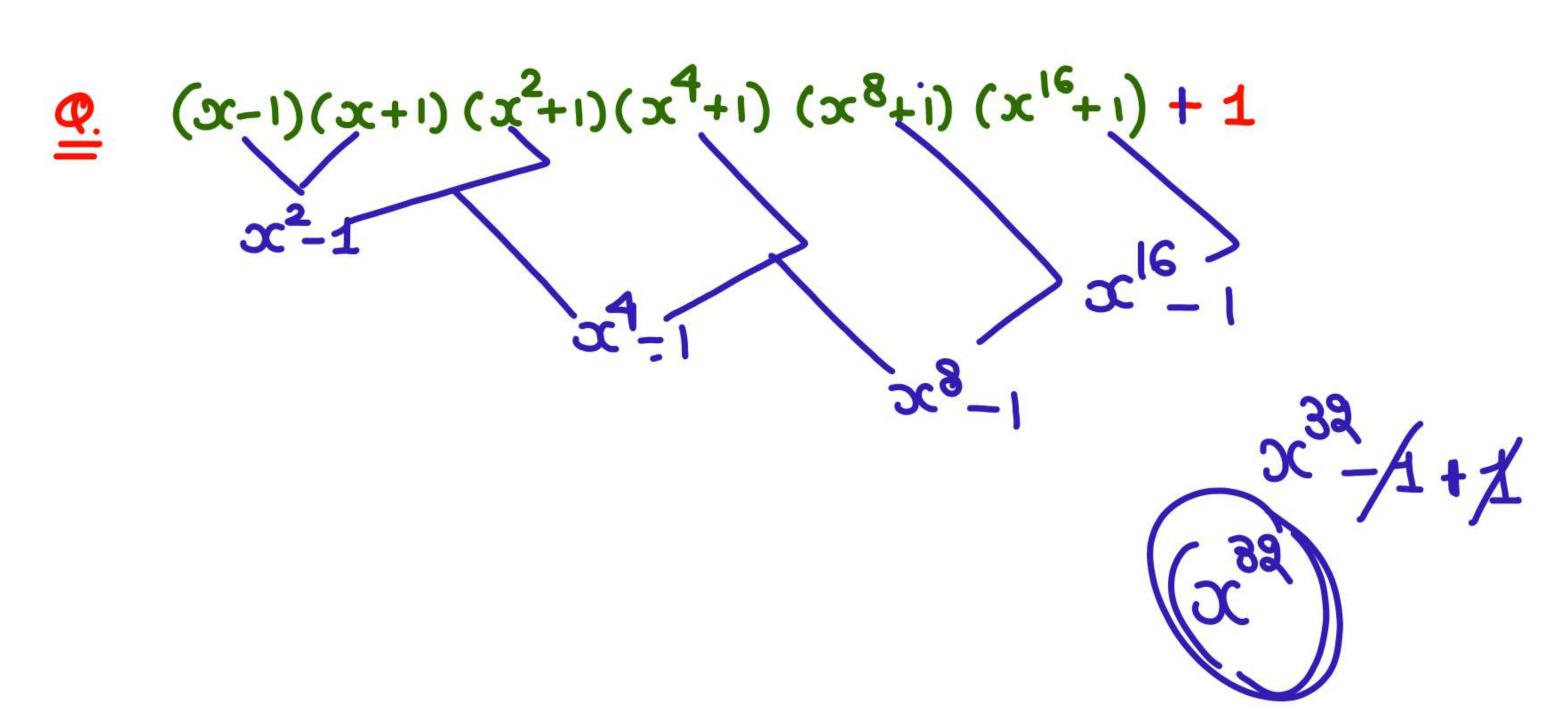


$$\underbrace{\frac{a^4 - b^4}{(a+b)^2}}_{=} \Rightarrow \underbrace{\frac{(a^2)^4 - (b^2)^2}{(a+b)^2}}_{=} = \underbrace{\frac{(a^2 + b^2)(a^2 - b^2)}{(a+b)^2}}_{=}$$

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

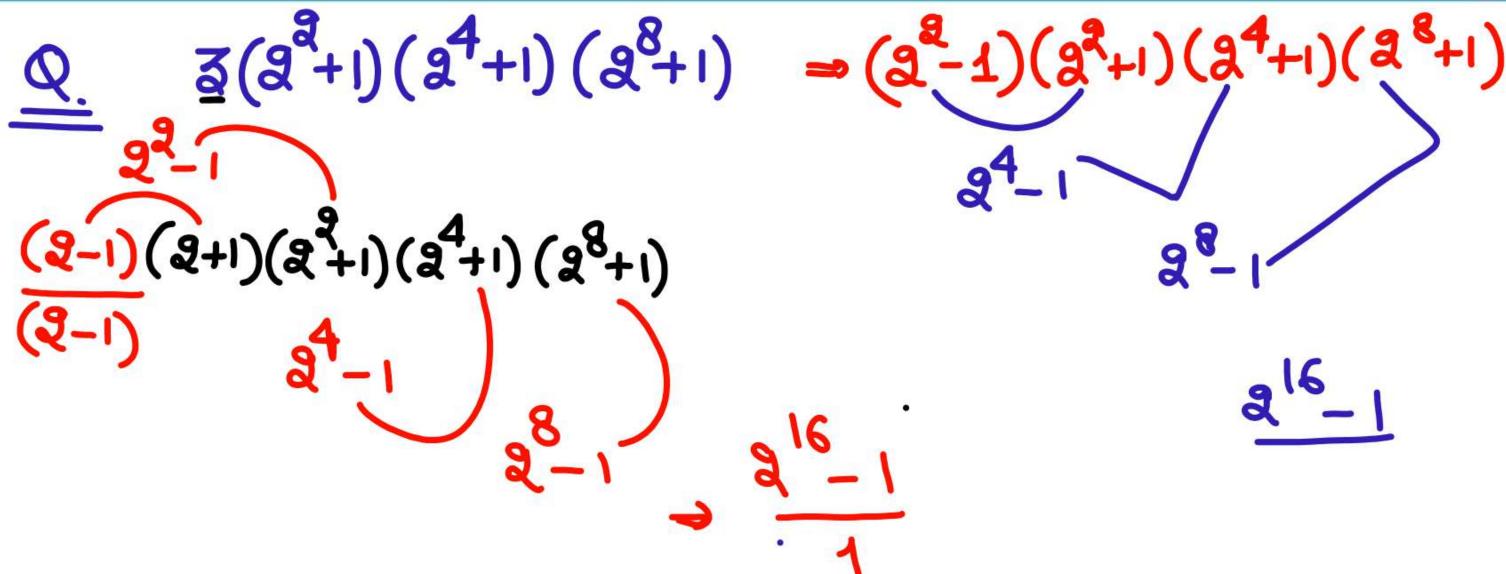
$$\frac{(a^{2}+b^{2})(a-b)}{(a+b^{2})(a-b)}$$





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

A. 252

В. 336

c. 242



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

A. 73

B. 75

c. 72

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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

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

A. 2000

B. 2500

c. 3000





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

A. 256

В. 324

c. 400





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

A. 52

B. 8

c. 52.8

MATHS BY SAHIL SIR



38.
$$\frac{(256+132)^2+(256-132)^2}{256\times256+132\times132}=?$$

Α.

B. 2

c. 388





39.
$$\frac{(869+674)^2-(869-674)^2}{869\times674}=?$$

A. 1543

B. 195

C. 2

D. 4

4

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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

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41.
$$\left(\frac{158\times158+158\times153+153\times153}{158\times158\times158-153\times153\times153}\right) = ?$$

Α.

B. 311

C. $\frac{1}{311}$





42.
$$\frac{(216+144)^2 - (216-144)^2}{(432\times288)} = ?$$

A. 72

B. 4

C.





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

A. 0.94

B. 10

c. 4

D. 1

1

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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

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45. Solve / हल कीजिये

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

Α.

В.

c. 4





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

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

В. .0625

c. .25

D. .0765

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

A. 1194649

B. 1162481

c. 1424649





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

A. 3.308

в. 4

c. 33.08

D. None of these



50.
$$\frac{2.3\times2.3\times2.3-1}{2.3\times2.3+2.3+1}=?$$

A. 0.3

В. 1.3

c. 2.2

D. 3.3

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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

В. 39

c. 34.45





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

A. 10.73

В. 10.7

c. 107

D. 1.07





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

A. 100000

в. 39684

c. 69842

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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





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



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



58. Which of the following numbers is the square root of 16129? निम्न में से कौन-सी संख्या 16129 का वर्गमूल है?

A. 123

В. 133

c. 127





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

3

MATHS BY SAHIL SIR



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

A. 2

В. 3

c. 1

D. 4

4



Answer sheet:

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

$$5 - \frac{10}{2}$$
 $35 - \frac{100}{4}$
 $135 - \frac{1000}{8}$
 $625 - \frac{10000}{16}$