



RBI ASSISTANT 2023



MOST EXPECTED SIMPLIFICATION QUESTIONS **PART-1**

देखो, सीखो और सफल हो जाओ



MATHS

LIVE 01:00 PM



<https://t.me/Mathbytarunsir>

Question 16- There is 60 liter of pure milk in a jar. 12 liter of milk is taken out and replaced by water. Again 12 liter of mixture is taken out and replaced by water. This process is repeated one more time. Then find ratio of milk and water in resultant mixture.

प्रश्न 16- एक जार में 60 लीटर शुद्ध दूध है। 12 लीटर दूध निकाला जाता है और पानी से प्रतिस्थापित किया जाता है। फिर से 12 लीटर मिश्रण निकाला जाता है और पानी से प्रतिस्थापित किया जाता है। इस प्रक्रिया को एक और बार दोहराया जाता है। तो परिणामी मिश्रण में दूध और पानी का अनुपात ज्ञात कीजिये।

①

<i>original</i>	<i>Remaining Milk</i>
5	4
5	4
5	4
<hr/>	<hr/>
125	64
↓	↓
<i>original</i>	<i>Remaining</i>
125-64	
= 61	

$$\frac{12}{60} = \frac{1}{5}$$

30

Ratio = 64:61

- A. 125:64
- B. 125:61
- C. 64:61
- D. 54:51
- E. None of these



Question 1- $\underline{\underline{6654}} + \underline{\underline{6576}} + \underline{\underline{7743}} + \underline{\underline{2188}} = ?$

<https://t.me/Mathbytarunsir>

$$\begin{array}{r} \text{Sol}^m \Rightarrow \\ 21000 \\ 1900 \\ 240 \\ \hline 23161 \end{array}$$

A. 23062

B. 23153

C. 24523

D. 45321

~~E. None of these~~



<https://t.me/Mathbytarunsir>

Question 2- $65 \times 65 - 47 \times 47 - \sqrt{12544} = ?$

$$\begin{array}{r}
 (47)^2 = \\
 \hline
 1649 \\
 56 \\
 \hline
 2209 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \sqrt{12544} \\
 \hline
 112 \overline{)118} \\
 \hline
 11^2 = 121 \\
 12^2 = 144
 \end{array}$$

$$\begin{aligned}
 &= 4225 - 2209 - 112 \\
 &= 2014 - 112 \\
 &= \underline{\underline{1902}}
 \end{aligned}$$

30

- A. 1003
- B. 2002
- C. 1102
- D. 1122
- E. None of these



$$23^2 = 529, 24^2 = 576$$

<https://t.me/Mathbytarunsir>

$$\begin{array}{r} \sqrt{55696} \\ \underline{236} \\ 234 \\ \hline \end{array}$$

$$\begin{array}{r} \sqrt[3]{906624} \\ \underline{124} \\ \hline \end{array}$$

Question 3- $\sqrt{55696} + 502 \times 2 - \sqrt[3]{1906624} = ?$

$$\begin{aligned} &= 236 + 1004 - 124 \\ &= 1240 - 124 \\ &= 1116 \end{aligned}$$

30

- A. 4111
- B. 1114
- C. 1142
- D. 1134
- E. None of these



<https://t.me/Mathbytarunsir>

Question 4- ~~20%~~ of ~~440~~ + 75% of 444 + 16% of 625 = ?

प्रश्न 4- 440 का 20% + 444 का 75% + 625 का 16% = ?

$$\begin{aligned} &= 88 + 333 + 100 \\ &= 433 + 88 \\ &= \underline{\underline{521}} \end{aligned}$$

88×22
 $88(20+2)$

A. 125

B. 521

C. 251

D. 551

E. None of these



Question 5- $77 \times 83 + 130\%$ of $50 = ?$

$$= 6391 + 65$$

$$= \underline{\underline{6456}}$$

$$(80+3)(80-3)$$

A. 5666

B. 6566

C. 6656

D. 4466

~~E. None of these~~

30

<https://t.me/Mathbytarunsir>



<https://t.me/Mathbytarunsir>

Question 6- $33 \times 17 + 427 - 52\% \text{ of } 1450 + 22 = y^2$

988

unit digit
2, 3, 7, 8

$$\begin{array}{r} 561 \\ 988 \quad 427 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \times 29 \\ \hline 50 \end{array} \times 1450$$

$$26(30-1) \\ \boxed{780-26}$$

$$988 - 754 + 22 = y^2$$

$$= 1010 - 754 + 22$$

$$y^2 = 256$$

$$y = \underline{\underline{16}}$$

30

A. 12

B. 14

C. 16

D. 24

E. None of these



Question 7- 67.5% of 960 + ?% of 6400 = 728

प्रश्न 7- 960 का 67.5% + 6400 का ?% = 728

<https://t.me/Mathbytarunsir>

$$12.5\% = \frac{1}{8}$$

$$\left[\frac{5}{8} (62.5\% + 5\%) \right] \text{ of } 960 + 64x = 728$$

$$\Rightarrow 600 + 48 + 64x = 728$$

$$64x = 728 - 648$$

$$64x = 80$$

$$x = \frac{80}{64} = 1.25$$

A. 2

~~B. 1.25~~

C. 1.5

D. 2.5

E. None of these

$$256 + 22$$

$$46 + 10 + 200$$

$$1010 - 754 + 22$$

$$278$$



Question 8- $\overset{368}{6992} \div 19 - ?\% \text{ of } 4 = -4100$

प्रश्न 8- $6992 \div 19 - 4 \text{ का } ?\% = -4100$

$$\begin{array}{r} -4100 \\ - \quad 368 \\ \hline \end{array}$$

$$x\% \text{ of } 4 = \overset{1117}{-4468}$$

$$x = 111700$$

30

A. 111700

B. 11200

C. 111200

D. 117000

E. None of these



Question 9- ⁴/₉ 44.44% of 2700 + 12% of 2250 = ? + 1200

प्रश्न 9- 2700 का 44.44% + 22500 का 12% = ? + 1200

$$11.11\% = \frac{1}{9}$$

$$\frac{3}{25}$$

$$\Rightarrow \cancel{1200} + 2700 = x + \cancel{1200}$$

$$\underline{\underline{x = 2700}}$$

~~A. 2700~~

B. 1700

C. 2300

D. 3300

E. None of these

30



Question 10- $(4863 - \sqrt{2601}) \times 2.5 = ?$

$$= 4812 \times 2.5$$

$$= 12030$$

$$\begin{array}{r} \sqrt{2601} \\ 59 \overline{) 51} \\ \underline{51} \\ 0 \end{array}$$

$5^2 =$
 $6^2 =$

A. 12033 ✓

B. 12055 ✓

C. 12077 ✓

D. 12035 ✓

E. None of these ✓



Question 11- 150% of 300 + ?% of 400 = 600

$$450 + 4x = 600$$

$$4x = 150$$

$$x = \underline{\underline{37.5}}$$

~~A. 37.5~~

B. 30.5

C. 56

D. 65

E. None of these



Question 12 - $4 \times 64 \times 256 \div 16 \times \underline{4} \times \underline{4} \times \underline{4} \times \underline{4} \times \underline{4} = 4^?$

<https://t.me/Mathbytarunsir>

$$4^4 = 256$$

$$4^1 \times 4^3$$

$$\frac{4^8 \times 4^6}{4^2} \times 4^5 = 4^x$$

$$x = 11$$

A. 11

B. 12

C. 13

D. 14

E. None of these



<https://t.me/Mathbytarunsir>

Question 13 - $7\frac{2}{3} + 4\frac{5}{12} + 9\frac{1}{4} - 6\frac{1}{2} = ?$

$$14 + \left[\frac{2 \times 4}{3 \times 4} + \frac{5}{12} + \frac{1 \times 3}{4 \times 3} - \frac{1 \times 6}{2 \times 6} \right] \quad \text{A. } 14\frac{1}{6}$$

$$14 + \left[\frac{10}{12} \right]$$

$$= 14\frac{5}{6}$$

B. $14\frac{5}{6}$

C. 14

D. 15

E. None of these



Question 14- $666 \div 37 + 75\%$ of 2248 = ?

<https://t.me/Mathbytarunsir>

$$\begin{array}{r} 3 \\ 14 \times 6 \\ \hline 37 \end{array}$$

$$\begin{array}{r} 1500 \\ 180 \\ 6 \\ \hline 1686 \end{array}$$

$$\begin{aligned} &= 18 + \frac{3}{4} \times \overset{562}{\cancel{2248}} \\ &= 18 + 1686 \\ &= \underline{\underline{1704}} \end{aligned}$$

A. 480

B. 580

C. 880

D. 680

E. None of these



<https://t.me/Mathbytarunsir>

Question 15- $25^{6.5} \times 25^{17.25} = 5^{21-?}$

$$5^{13} \times 5^{34.5} = 5^{21-x}$$

$$21-x = 47.5$$

$$-x = 47.5 - 21$$

$$x = \underline{\underline{\text{negative}}}$$

A. 25.5

B. 30

C. 2.75

D. 26.50

E. None of these

30

$$(a^m)^n = a^{m \times n}$$

$$[5^2]^{6.5}$$



Question 17- 64% of $\sqrt{409600} \div 1.6 = ? \times 6.4$

<https://t.me/Mathbytarunsir>

$$\frac{64}{100} \times \frac{6400}{1.6} = x \times \frac{64}{100}$$

$$x = 40$$

A. 100

B. 200

C. 300

D. 400

E. None of these



Question 18- ³⁷ ~~1332~~ ÷ ~~36~~ × 33 + 287 - 288 = ?

$$= 1221 - 1$$

$$= 1220$$

A. 1221

~~B. 1220~~

C. 1122

D. 1322

E. None of these

<https://t.me/Mathbytarunsir>

$$37(30+3)$$

$$\begin{array}{r} 1110 \\ 111 \\ \hline 1221 \\ \hline \hline \end{array}$$



Question 19- $\frac{4}{5}$ of ~~800~~ ⁵¹¹ of 2555 = 50% of 5036 + ?
 $80\% \text{ of } 2555$

<https://t.me/Mathbytarunsir>

$$\frac{4}{5}$$

$$x = 2044 - 2536$$

$$x = \underline{\underline{-474}}$$

A. -414

B. -444

~~C. -474~~

D. -432

E. None of these



Question 20- $?^2 + 200 \div 64 \times 2^5 - 8^2 \times 7 = 13$

<https://t.me/Mathbytarunsir>

H.W.

A. 19

B. 20

C. 31

D. 33

E. None of these

30



Question 21- 120% of $5005 + 103\%$ of $423 = ?$

<https://t.me/Mathbytarunsir>

H.W.

30

A. 6555

B. 655.9

C. 6555.9

D. 655

E. None of these



Question 22- $12356 + 44321 + 23454 = ?$

<https://t.me/Mathbytarunsir>

H.w.

30

A. 10131

B. 70131

C. 80131

D. 22031

E. None of these

**Join my telegram channel;
<https://t.me/Mathbytarunsir>**