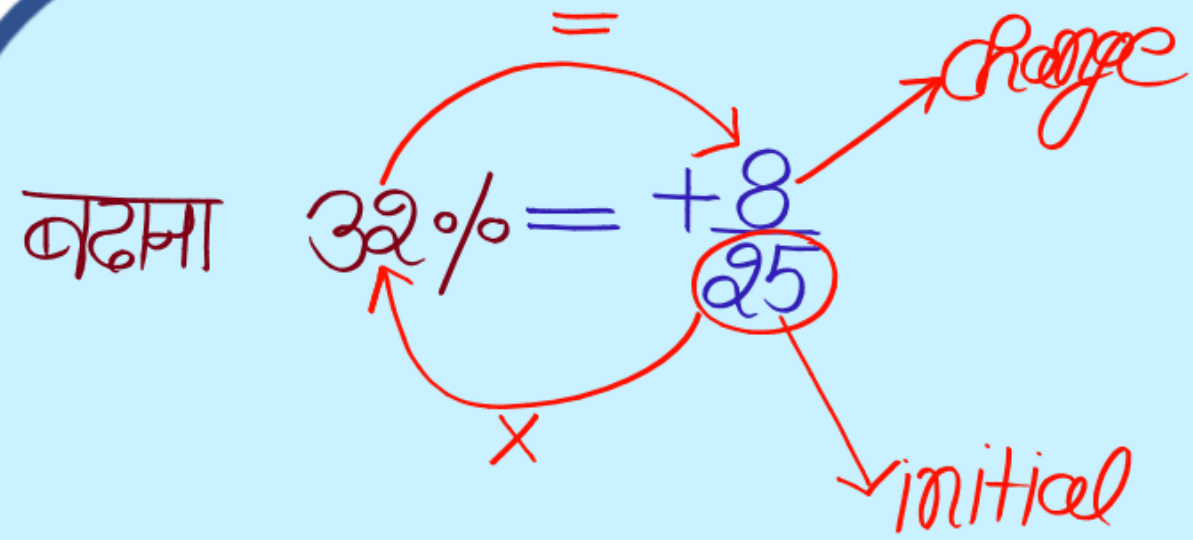




Initial value

100%

final value

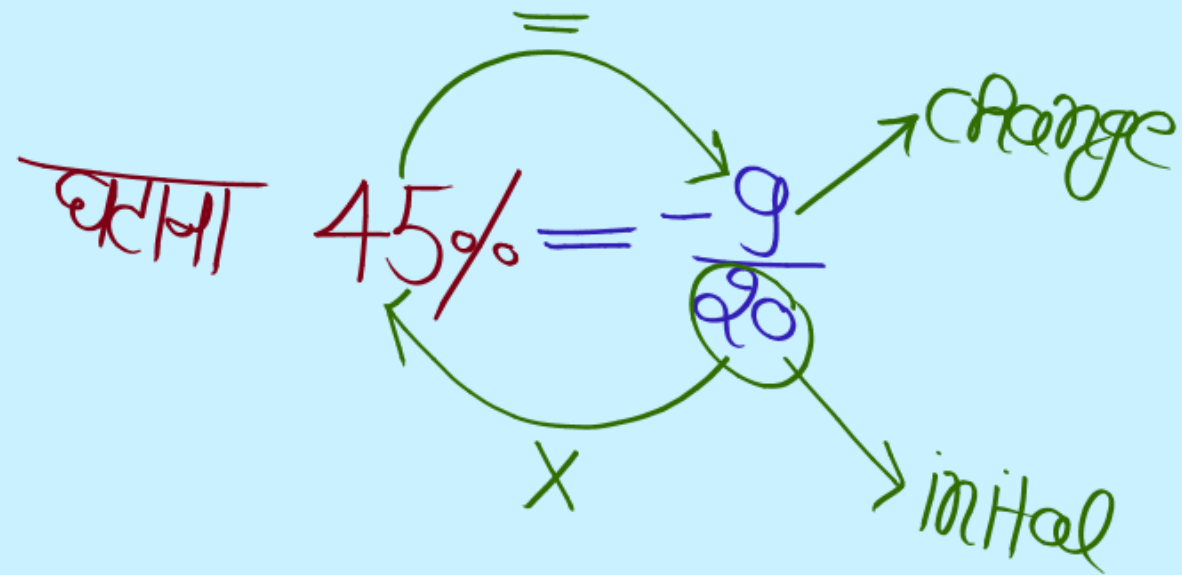
132%

या

25

:

33



Initial
100%

final
55%

या

45

:

11



$$+18.75\% = +\frac{3}{16}$$

Diagram showing a circular arrow from the denominator 16 to the numerator 3, with an equals sign above the arrow and an 'X' below the circle. The fraction $\frac{3}{16}$ is circled in red, and the word "initial" is written in red next to it.

I		F
16	:	19

$$-28.56\% = -\frac{2}{7}$$

Diagram showing a circular arrow from the denominator 7 to the numerator 2, with an equals sign above the arrow and an 'X' below the circle. The fraction $\frac{2}{7}$ is circled in red.

I		F
7	:	5

$$14.28\% = \frac{1}{7}$$

EXAMPLE

When a number increased by 32% it becomes 5280. What is that no?

जब किसी संख्या में 32% की वृद्धि की जाती है, तो वह 5280 हो जाती है। वह संख्या क्या है?

(a) 8000

(b) 4000

(c) 6000

(d) 4400



$$132\% \xrightarrow{\times 40} 5280$$

$$100\% \xrightarrow{\times 40} 4000$$

EXAMPLE

When a number is reduced by 22.22% it becomes 4963. What is that number?

जब किसी संख्या को 22.22% घटाने पर वह 4963 हो जाती है। वह संख्या क्या है?

(a) 8961

(b) 5391

(c) 6491

☒ (d) 6381



? $\xrightarrow{-22.22\%}$ 4963

$$22.22\% = \frac{2}{9}$$

$$\begin{array}{l} \text{I} \\ 9 \\ \times 709 \\ \hline 6381 \end{array}$$

$$\begin{array}{l} \text{F} \\ 7 \\ \times 709 \\ \hline 4963 \end{array}$$

#



A is 20% more than B.
A, B से 20% अधिक है।

$$A : B \\ 6 : 5$$

$$20\% = +\frac{1}{5} \rightarrow \text{change}$$

Diagram showing a circular arrow from 20% to $+\frac{1}{5}$ and then to 5, which is circled and labeled B.



Q is $36\frac{2}{3}\%$ Less than P.
Q, P से $36\frac{2}{3}\%$ कम है।

$$P : Q \\ 30 : 19$$

$$36\frac{2}{3}\% = -\frac{11}{30}$$

Diagram showing a circular arrow from $36\frac{2}{3}\%$ to $-\frac{11}{30}$ and then to 30, which is circled and labeled P.

Basic sheet



6. **0.08% of 120% of 50,000 is equal to _____?**
50,000 का 120% का 0.08% _____ के बराबर हैं

[A] 480

✓ [B] 48

[C] 4800

[D] 4.8

$$\cdot \cancel{0.08\%} \times \cancel{120\%} \times \cancel{50000}$$

$$0.08 \times 600$$

$$= 48$$

7. The value of $17\frac{1}{2}\%$ of $3\frac{1}{4}\%$ of $33\frac{1}{3}\%$ of 7200 is:
 7200 के $33\frac{1}{3}\%$ के $3\frac{1}{4}\%$ के $17\frac{1}{2}\%$ का मान कितना होगा?

[A] ~~7.65~~

[C] 13.65

[B] ~~11.68~~

[D] ~~9.65~~

~~$13\frac{1}{4}\%$~~

~~$$7200 \times \frac{1}{3} \times \frac{13}{4} \times \frac{7}{40}$$~~

$$17.5\% = \frac{7}{40}$$

~~$$= \frac{273}{20}$$~~

$$= 13\frac{13}{20}$$

(CGL
MAINS
2021)

8. Which of the following is the least?
निम्नलिखित में से कौन सा सबसे कम है?

- ~~I.~~ 12% of 625/ 625 का 12%
- ~~II.~~ 15% of 555/ 555 का 15%
- 72 ← ~~III.~~ 10% of 720/ 720 का 10%
- ~~IV.~~ 9% of 845/ 845 का 9%

[A] 9% of 845

[B] 12% of 625

~~[C]~~ 10% of 720

[D] 15% of 555

$$12\% \times 600 \uparrow = 72 \uparrow$$

9. If **A% of A is 9604**, then what is the value of A?

यदि A का A% 9604 है, तो A का मान क्या है?

SSC GD 2024

[A] 1020

[C] 920

[B] 980

[D] 880

$$\begin{aligned} 98^2 &= 9604 \\ 99^2 &= 9801 \end{aligned}$$

$$\frac{A^2}{100} = 9604$$

$$\frac{A}{10} \Rightarrow 98$$

10. **2% of 13% of a number is what percentage of that number?**

किसी संख्या के 13% का 2%, उस संख्या का कितना प्रतिशत है?

¹³
(RPF CONSTABLE 2025)

[A] 0.26

[B] 0.026

[C] 26

[D] 15

~~NX~~ 26%

11. By how much is 60% of 75 greater than $\frac{1}{5}$ of 25?

75 का 60%, 25 के $\frac{1}{5}$ से कितना अधिक है?

(SSC CGL MAINS 2024)

[A] 37

[B] 38

[C] 40

[D] 34

$$\frac{15}{75} \times \frac{3}{5}$$

$$45 - 5$$

12. If 35% of k is 20 less than 1200% of 25, then k is:
यदि k का 35%, 25 के 1200% से 20 कम है, तो k का मान क्या है?
(RPF CONSTABLE 2025)

[A] 840

[B] 760

[C] 800

[D] 780

$$K \times \frac{7}{20} = 300$$

$$K = 800$$

13. 25% of (50% of 30% of 150) is equal to: के बराबर है।

$$\frac{25\% \text{ of } (50\% \text{ of } 30\% \text{ of } 150)}{40\% \text{ of } 2250}$$

[A] 0.825%

[B] 0.25%

[C] 0.625%

[D] 0.225%

(CGL
MAINS
2021)

$$\begin{cases} \frac{1}{8} = 0.125 \\ \frac{1}{16} = 0.0625 \end{cases}$$

$$\frac{25\%}{40\%} = \frac{5}{8}\% = 0.625\%$$

14. If $a\%$ of 240 is c and $c\%$ of a is 117.6, then the value of $a + c$ is:

यदि 240 का $a\%$, c है और a का $c\%$, 117.6 है, तो $a + c$ का मान ज्ञात कीजिए।

[A] 238

[B] 144

[C] 260

[D] 196

17

$$\frac{a}{5} \times \frac{240}{100} = c$$

$$\frac{a}{c} = \frac{5}{12}$$

14. If $a\%$ of 240 is c and $c\%$ of a is 117.6, then the value of $a + c$ is:
 यदि 240 का $a\%$, c है और a का $c\%$, 117.6 है, तो $a + c$ का मान ज्ञात कीजिए।

- [A] 238 [B] ~~144~~
 [C] ~~260~~ [D] ~~196~~

70 + 168

~~$$\frac{a}{100} \times 240 = c$$~~

~~$$\frac{c}{100} \times 5c = 117.6$$~~

~~$$a = \frac{5c}{12} = \frac{5 \times 168}{12} = 70$$~~

~~$$c^2 = 117.6 \times 240$$~~

~~$$c = \sqrt{6 \times 196 \times 24}$$~~

~~$$c = 14 \times 12 = 168$$~~

∴ 20

~~100%~~
~~50~~
5
10
15
20
100

∴ 20

~~100%~~
~~80~~
80
16
24
32
160



15. $78.5\% \text{ of } 640 + 36\% \text{ of } 785 - ? = 29 \times 21$

[A] 173

[B] 143

[C] 151

[D] 176

~~$64\% \text{ of } 785 + 36\% \text{ of } 785 - ? = 29 \times 21$~~

$$785 - ? = 609$$

$$176 = ?$$

16. If ~~25% of 400~~ + 35% of 1260 + ~~27% of 1800~~ = 1020 + x, then the value of x lies between:

यदि ~~400 का 25%~~ + 1260 का 35% + 1800 का ~~27%~~ = 1020 + x है, तो x का मान _____ के बीच होगा।

[A] 6 to 10
[C] 11 to 15

[B] 0 to 5
[D] 16 to 20

$$100 + 441 + 486 = 1020 + x$$

$$1027 = 1020 + x$$

$$7 = x$$

$$\frac{7}{100} \times 1260 = 441$$

$$27 \times 1800 = 486$$