



Sahi Prep Hai Toh Life Set Hai

PERCENTAGE

Part-1





Sahi Prep Hai Toh Life Set Hai

PERCENTAGE

Part-1





gradeup

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Part-1

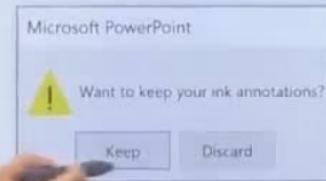


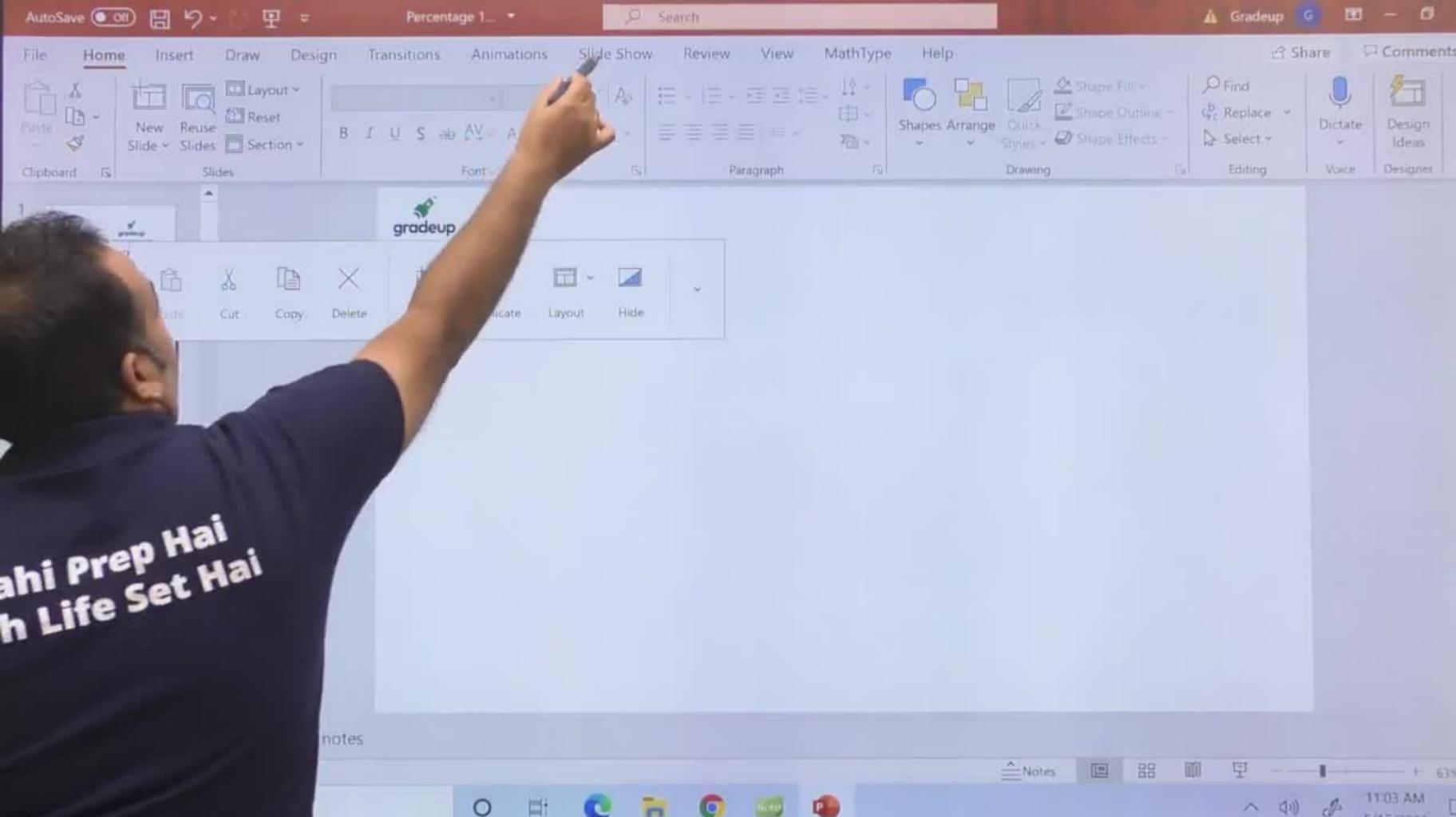


P

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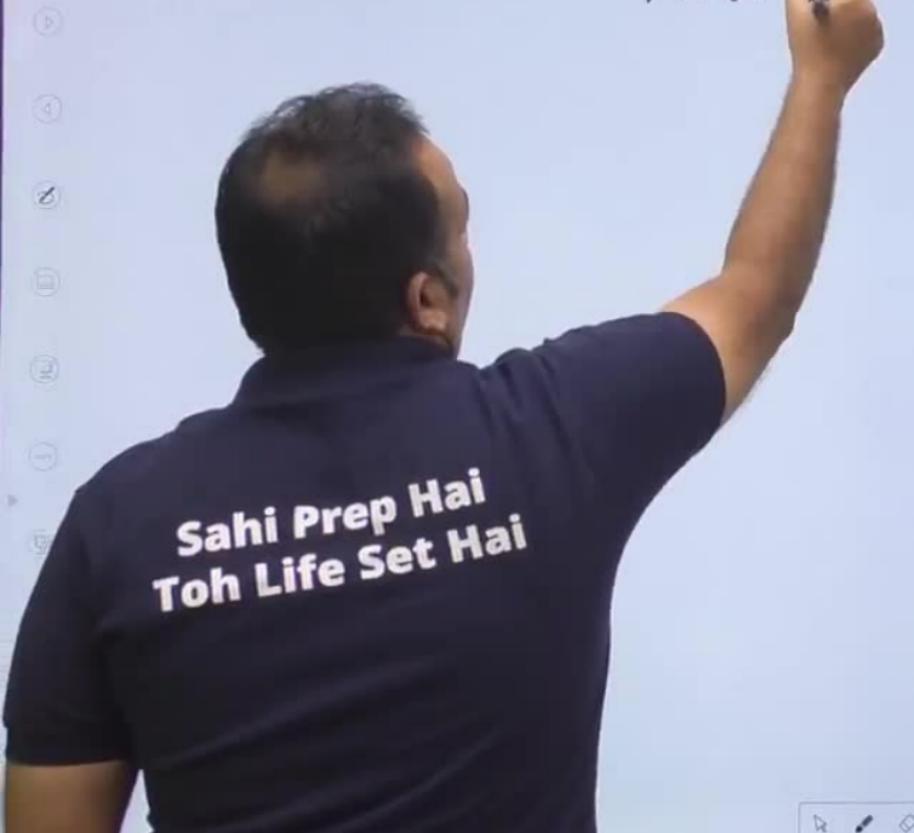
PERCENTAGE





Jahai Prep Hai
Life Set Hai

Arith.



Arithmetic

Percentage

Profit & Loss

Sahi Prep Hai
Toh Life Set Hai

Arithmetic

Percentage

Profit & Loss

SI + CI

Time

**Sahi Prep Hai
Toh Life Set Hai**

Arithmetic

Percentage

Profit & Loss

SI + CI

Time & work

**Sahi Prep Hai
Toh Life Set Hai**

Arithmetic

Percentage

Profit & Loss

SI + CI

Time & work

R & P

**Sahi Prep Hai
Toh Life Set Hai**

Arithmetic

Percentage

Profits Loss

SI + CI

Time & work

R&P,

TSD

Arithmetic

Percentage

Profit & Loss

SI + CI

Time & Work

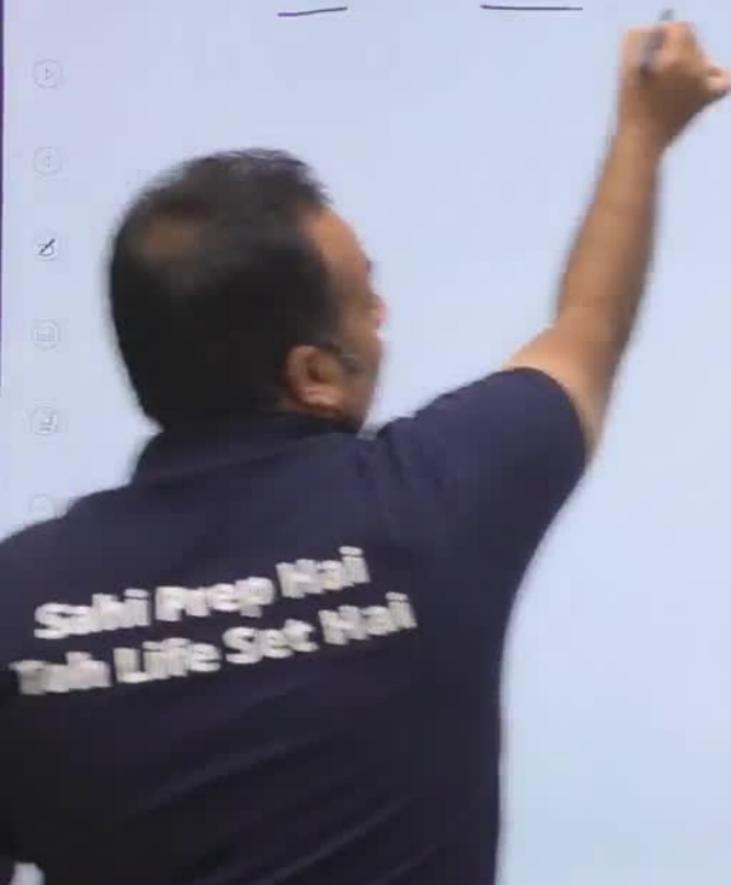
R & P,

TSD

Ave

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Toh Life Set Hai

HOW WE WILL GO THROUGH PERCENTAGE



Percentages

4 sessions

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Toh Life Set Hai

Percentages

4 sessions

Class

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Percentages

4 sessions

Clos →

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Percentages

4 sessions



40 Question

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Percentages

4 sessions

Class → 40 Question

Quiz

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Percentages

4 sessions

Class → 40 Question

Quiz → $(40 - 50)$ Question

Home

**Sahi Prep Hai
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Percentages

4 sessions

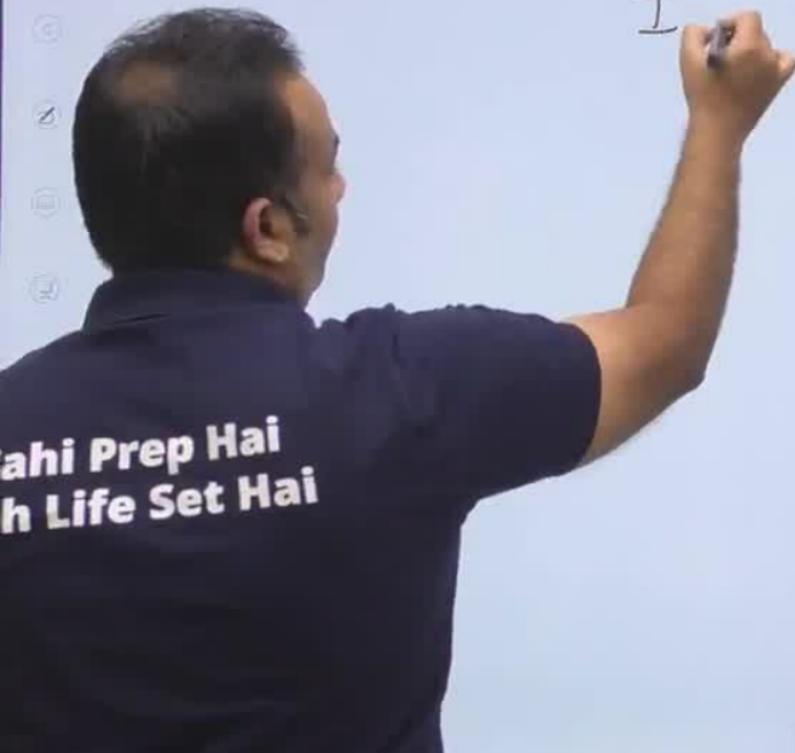
{ Class → 40 Question
O → (40 - 50) Question
Homework → 30 Question

Percentages

4 sessions

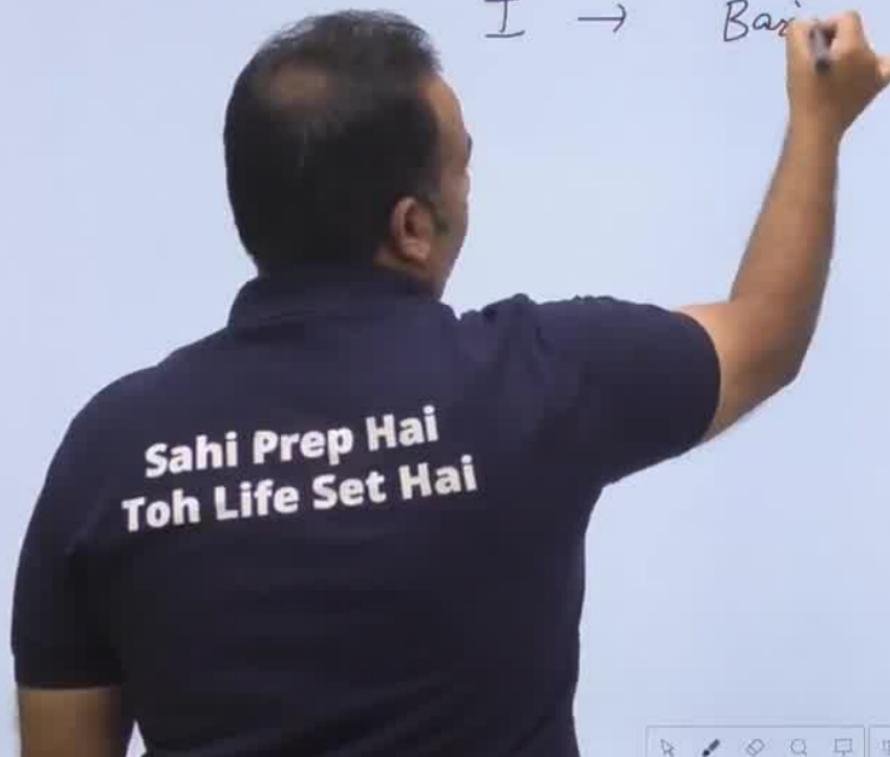
- Class → 40 Question
- Quiz → (40 - 50) Question
- Homework → 30 Question

HOW WE WILL GO THROUGH PERCENTAGE



HOW WE WILL GO THROUGH PERCENTAGE

I → Bai'



HOW WE WILL GO THROUGH PERCENTAGE

I → Basics of Percentage

Meaning

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HOW WE WILL GO THROUGH PERCENTAGE

I → Basics of Percentage

Meaning of %

Basics

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Toh Life Set Hai

HOW WE WILL GO THROUGH PERCENTAGE

I → Basics of Percentage

Meaning of %

Basic Term

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HOW WE WILL GO THROUGH PERCENTAGE

I → Basics of Percentage

Meaning of %

Basic Terms

Simplification

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HOW WE WILL GO THROUGH PERCENTAGE

I → Basics of Percentage

Meaning of %

Basic Terms

Simple Interest

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HOW WE WILL GO THROUGH PERCENTAGE

I → Basics of Percentage

Meaning of %.

Basic Terms

Importance of learning some values

Simple Questions

Successive

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HOW WE WILL GO THROUGH PERCENTAGE

Agenda

I → Basics of Percentage

Meaning of %.

Basic Term

Importance of leaving some values

Simple Question

Successive % Change

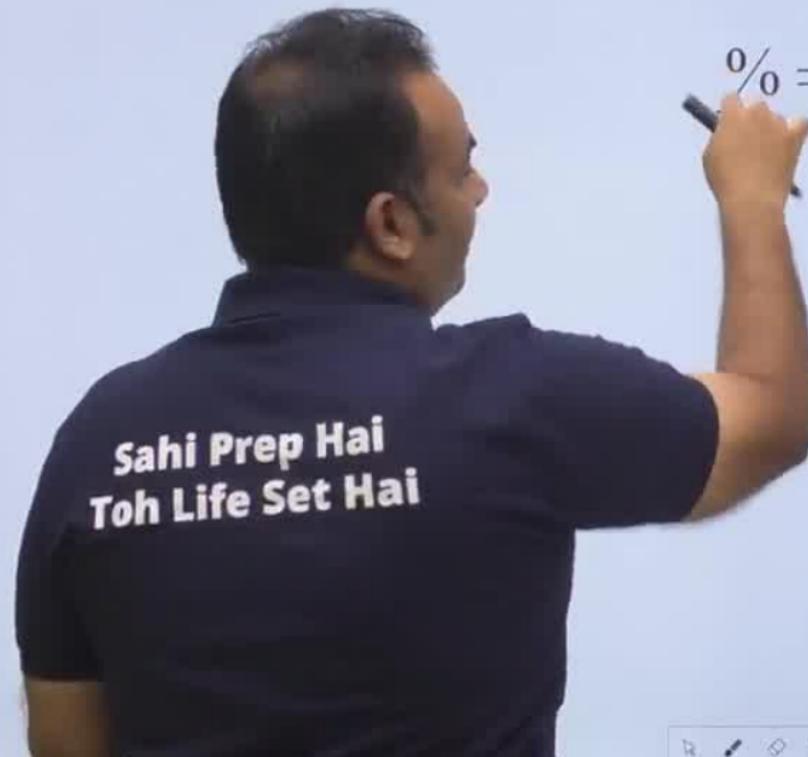
MEANING OF PERCENTAGE

$$\% = \frac{1}{100}$$



MEANING OF PERCENTAGE

$$\% = \frac{1}{100}$$



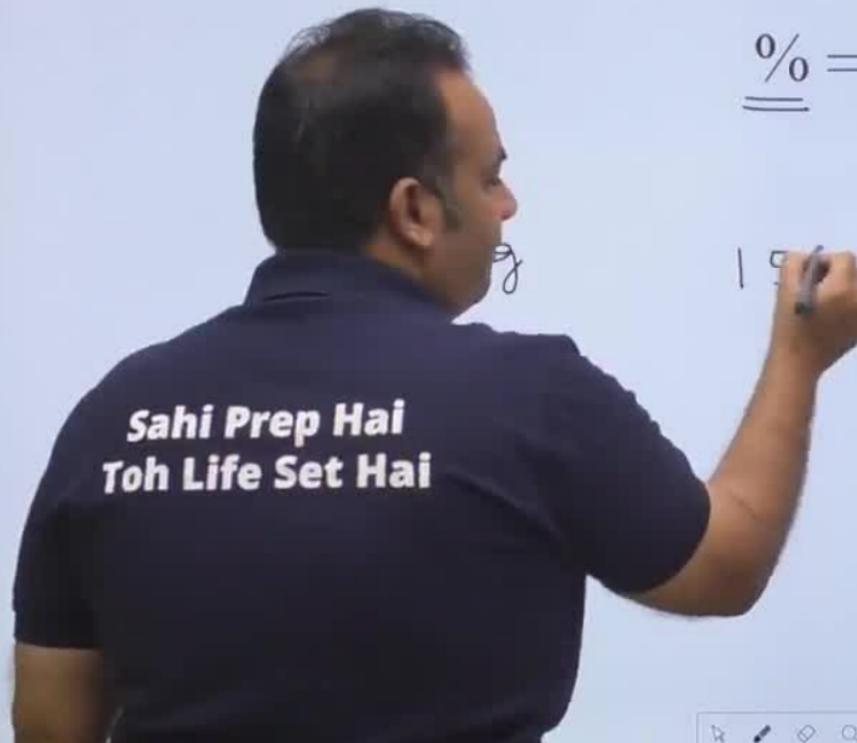
MEANING OF PERCENTAGE

$$\% = \frac{1}{100}$$



MEANING OF PERCENTAGE

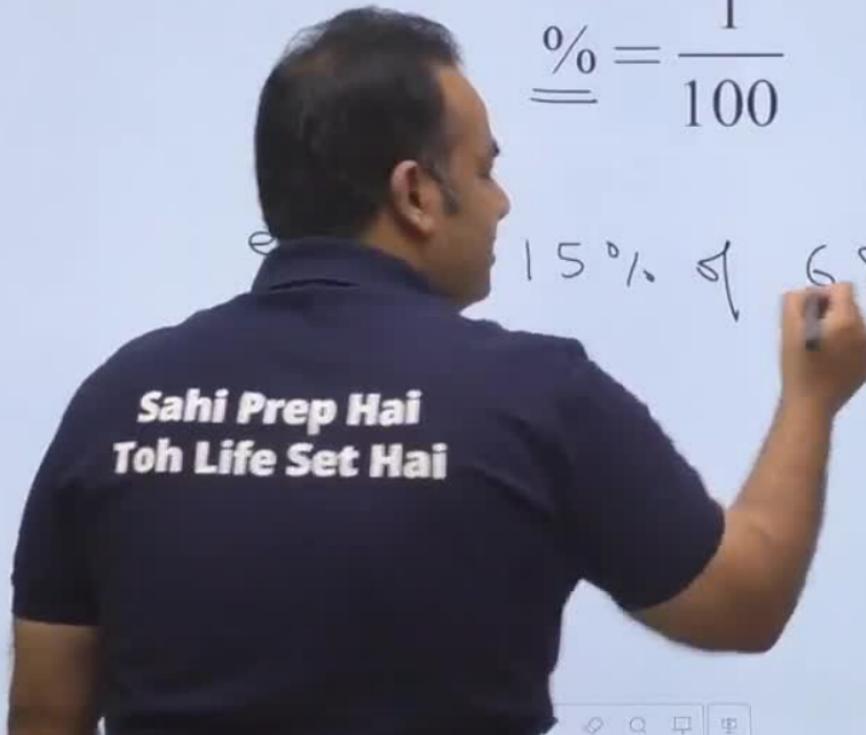
$$\% = \frac{1}{100}$$



MEANING OF PERCENTAGE

$$\% = \frac{1}{100}$$

$$15\% \text{ of } 680$$



MEANING OF PERCENTAGE

$$\% = \frac{1}{100}$$

$$\begin{array}{r} 15\% \text{ of } 680 \\ \hline 3 \longdiv{18} \quad . \quad 680 \end{array}$$

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MEANING OF PERCENTAGE

$$\% = \frac{1}{100}$$

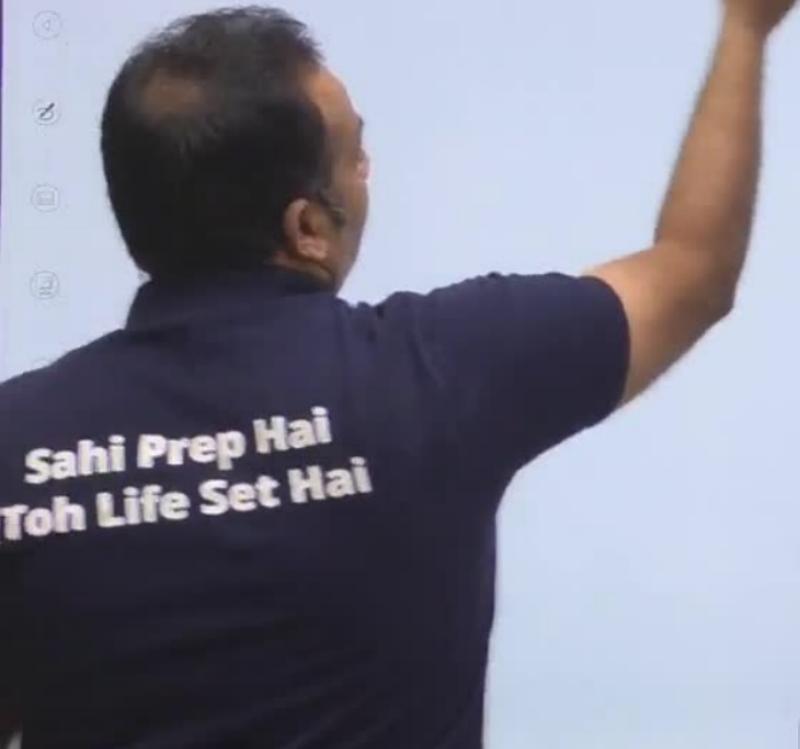
eg

$$15\% \text{ of } 680$$

$$\begin{array}{r} 3 \\ \times 18 \\ \hline x 108 \end{array} \quad . \quad \begin{array}{r} 37 \\ \cancel{8} \\ \hline 84 \end{array}$$

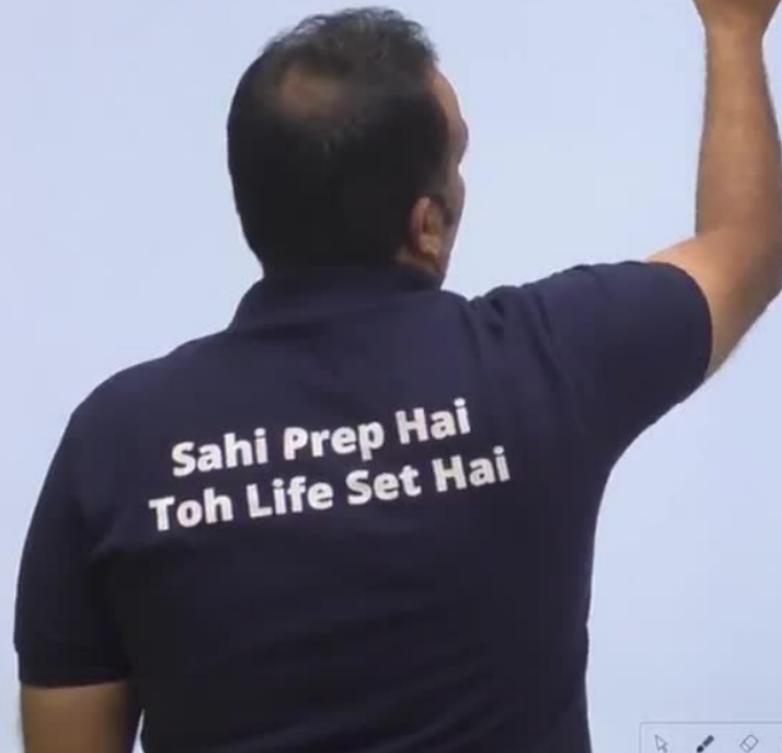
= 

eg



eg

3?



eg

32% of 750

Ist
—Sahi Prep Hai
Teh Life Set Hai

eg

32% of 750

st

32

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Toh Life Set Hai

eg

32% of 750

$$\begin{array}{r} 16 \\ \times 75\% \\ \hline 120 \end{array}$$



eg

32% of 750

Ist

$$\frac{32}{100} \times 750 = 240$$

II

i Prep Hai
Life Set Hai

eg

32% of 750

$$\frac{32}{100} \times 750 = 240$$

10% \rightarrow 75

3%

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Toh Life Set Hai

eg

32% of 750Ist
—

$$\begin{array}{r} 16 \\ \times 32 \\ \hline 32 \\ + 160 \\ \hline 240 \end{array}$$

IInd17
75

Sahi Prep Hai
Toh Life Set Hai

eg

32% of 750Ist
—

$$\begin{array}{r} 16 \\ \times 32 \\ \hline 32 \\ + 16 \\ \hline 240 \end{array} \quad \begin{array}{r} 16 \\ \times 750 \\ \hline 240 \end{array}$$

IIndSahi Prep Hai
Toh Life Set Hai

$$\begin{array}{r} 75 \\ \times 3 \\ \hline 225 \\ + 15 \\ \hline 24 \end{array}$$

1% = 7.5

eg

32% of 750Ist

$$\frac{32}{100} \times 750 = 240$$

IInd

$$10\% \rightarrow 75$$

$$30\% \rightarrow$$

$$2\% \rightarrow$$

$$\begin{array}{r} 225 \\ 15 \\ \hline 240 \end{array}$$

$$1\% = 75$$



eg



eg

78



eg

$$78.6\% \sqrt{ }$$

$$320$$

$$10^{\circ}\% \rightarrow 32$$

$$1^{\circ}\% \rightarrow 3.2$$

$$1\% \rightarrow 32$$

Sahi Prep Hai
Toh Life Set Hai

eg $78.6\% \sqrt{ } 320$

$$10\% \rightarrow 32$$

$$1\% \rightarrow 3.2$$

$$1\% \rightarrow 32$$

$$80\% -$$

Sahi Prep Hai
Toh Life Set Hai

eg

$$78.6\% \text{ of } 320$$

$$10\% \rightarrow 32$$

$$1\% \rightarrow 3.2$$

$$1\% \rightarrow 32$$

$$80\% \rightarrow \underline{\underline{256}}$$

$$1\% \rightarrow 3.2$$

$$4\% \rightarrow \underline{1.28}$$

$$256 - 3.2 - 1.28$$

Sahi Prep Hai
Toh Life Set Hai

eg $78.6\% \text{ of } 320$

$$10\% \rightarrow 32 \quad 1\% \rightarrow 3.2 \quad 1\% \rightarrow 3.2$$

$$80\% \rightarrow \underline{\underline{256}} \quad 1\% \rightarrow 3.2 \quad 4\% \rightarrow \underline{1.28}$$

$$256 - 3.2 - 1.28$$

$$251$$

*Sahi Prep Hai
Toh Life Set Hai*

eg

$$78.6\% \text{ of } 320$$

$$10\% \rightarrow 32$$

$$1\% \rightarrow 3.2$$

$$1\% \rightarrow 32$$

$$80\% \rightarrow \underline{\underline{256}}$$

$$1\% \rightarrow 3.2$$

$$4\% \rightarrow \underline{\underline{1.28}}$$

$$256 - 3.2 - 1.28$$

$$\underline{\underline{251.52}}$$

eg

6% of

320

$$10\% \rightarrow 32$$

$$1\% \rightarrow 3.2$$

$$1\% \rightarrow -32$$

$$1\% \rightarrow \underline{\underline{256}}$$

$$1\% \rightarrow 3.2$$

$$1\% \rightarrow \underline{\underline{1.28}}$$

$$256 - 3.2 - 1.28$$

$$\underline{\underline{251.52}}$$

Sahi Prep Hai
Toh Life Set Hai

eg

$$78.6\% \text{ of } 320$$

$$\rightarrow 32$$

$$320$$

$$\underline{256}$$

$$1\% \rightarrow 3.2$$

$$1\% \rightarrow 32$$

$$\rightarrow 3.2$$

$$4\% \rightarrow 1.28$$

$$- 1.28$$

$$\underline{2}$$

Sahi Prep Hai
Toh Life Set Hai

eg

$$78.6\% \sqrt{ }$$

$$320$$

$$10 \rightarrow 32$$

$$10 \rightarrow 3.2$$

$$100 \rightarrow 32$$

$$100 \rightarrow \underline{256}$$

$$100 \rightarrow 3.2$$

$$100 \rightarrow \underline{1.28}$$

$$32 - 1.28$$

$$\underline{31.52}$$

Sahi Prep Hai
Toh Life Set Hai

eg

$$78.6\% \text{ of } 320$$

320

4%

$$10\% \rightarrow 32$$

$$1\% \rightarrow 3.2$$

$$1\% \rightarrow 32$$

$$80\% \rightarrow \underline{\underline{256}}$$

$$1\% \rightarrow 3.2$$

$$4\% \rightarrow \underline{\underline{1.28}}$$

$$256 - 3.2 - 1.28$$

$$\underline{\underline{251.52}}$$

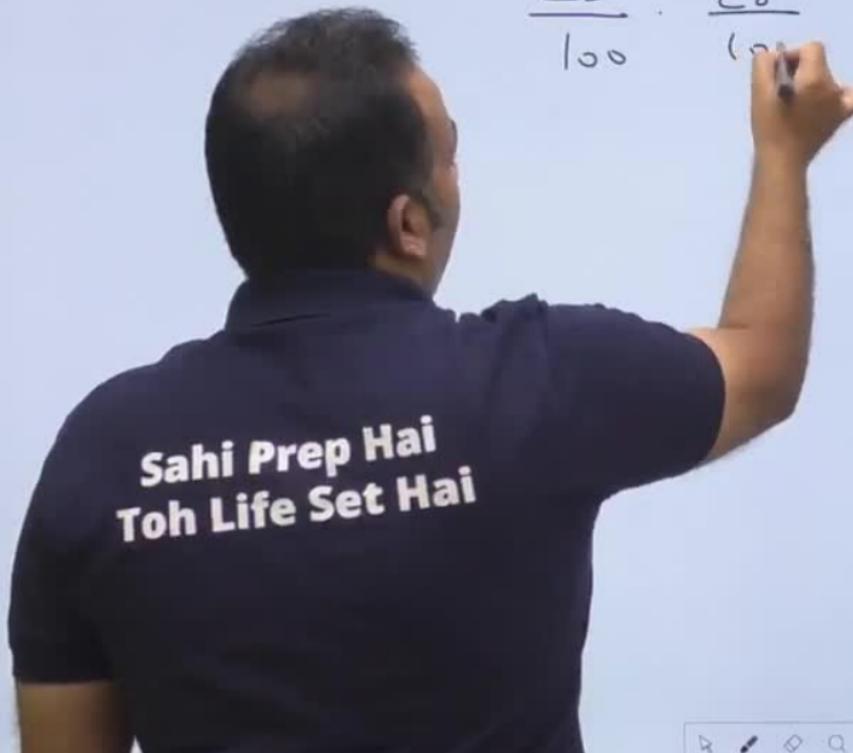
Eg. 25% of 28% of 30% of 45% of 160000.

$$\frac{25}{100}$$

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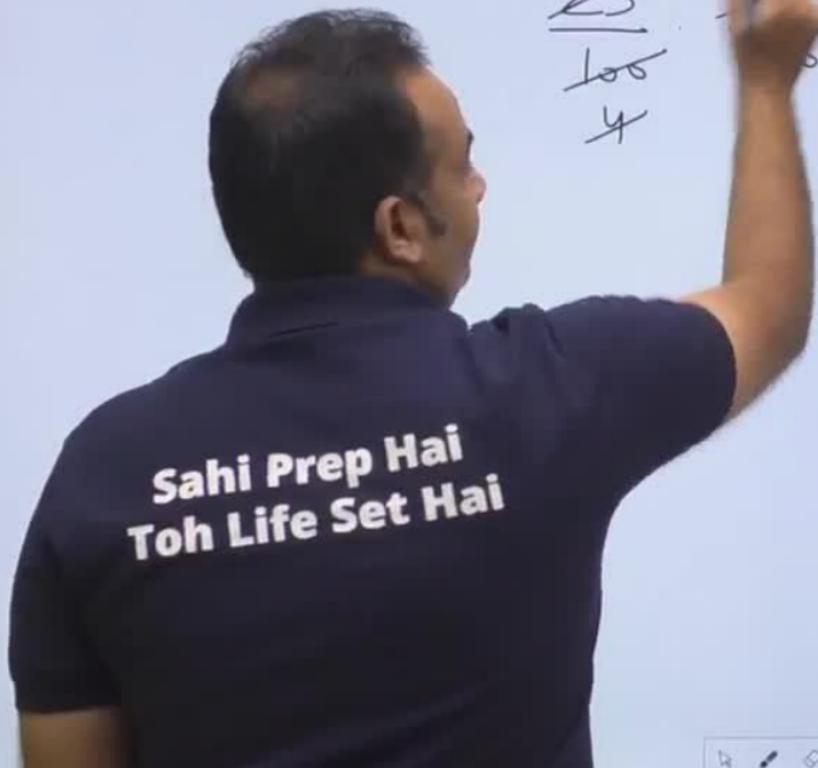
Eg. 25% of 28% of 30% of 45% of 160000.

$$\frac{25}{100} \cdot \frac{28}{100}$$



Eg. 25% of 28% of 30% of 45% of 160000.

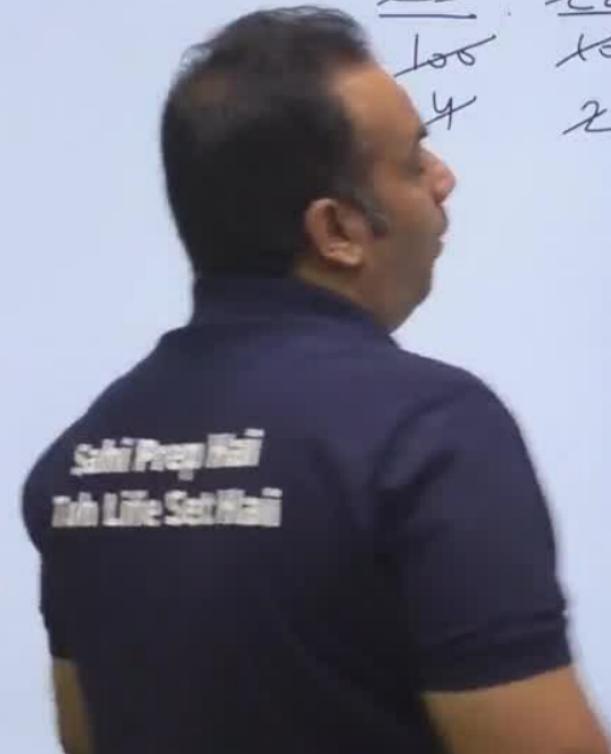
$$\frac{25}{100} \cdot \frac{7}{\cancel{100}} \cdot \frac{30}{\cancel{100}} \cdot \frac{45}{\cancel{100}} \cdot 1,60,000$$



Eg. 25% of 28% of 30% of 45% of 160000.

$$\frac{25}{100} \cdot \frac{28}{100} \cdot \frac{30}{100} \cdot \frac{45}{100} \cdot 160,000$$

↓ ↓ ↓ ↓ ↓
4 2 3 9 8

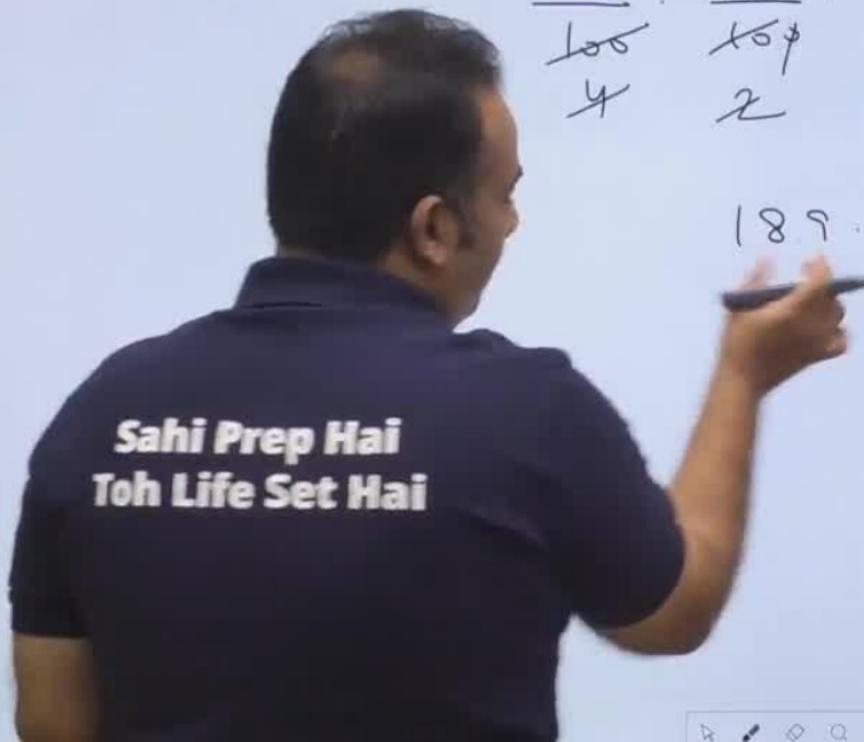


Eg. 25% of 28% of 30% of 45% of 160000.

$$\frac{25}{100} \cdot \frac{28}{100} \cdot \frac{30}{100} \cdot \frac{45}{100} \cdot 160,000$$

↓ ↓ ↓ ↓ ↓
4 2 3 5 8

189 · 8

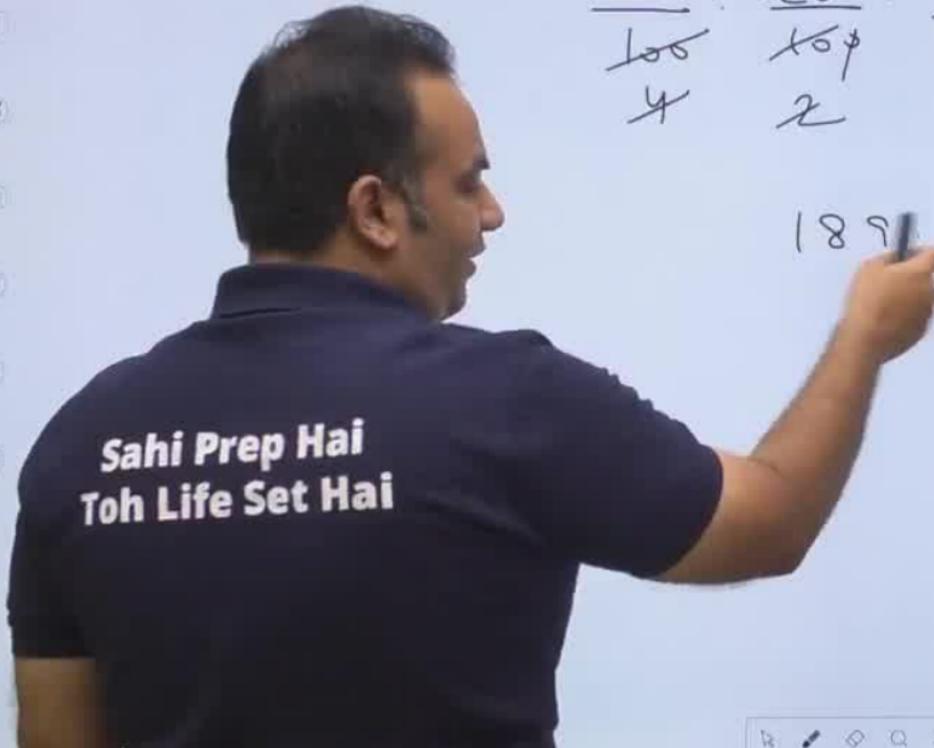


Eg. 25% of 28% of 30% of 45% of 160000.

$$\frac{25}{100} \cdot \frac{28}{100} \cdot \frac{30}{100} \cdot \frac{45}{100} \cdot 160,000$$

↓ ↓ ↓ ↓
4 2 9 8

18918



Eg. 25% of 28% of 30% of 45% of 160000.

$$\frac{25}{100} \cdot \frac{28}{100} \cdot \frac{30}{100} \cdot \frac{45}{100} \cdot 1,60,000$$

$\cancel{4}$ $\cancel{2}$ $\cancel{9}$ $\cancel{8}$

$$189 \cdot 8$$

$$\begin{array}{r} 1512 \\ \hline \end{array}$$

Eg. Find the value of 32% of 725.

725

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Eg. Find the value of 32% of 725.

$$72.5 \times 3 = 217.5$$



Eg. Find the value of 32% of 725.

$$\begin{array}{r} 72.5 \times 3 = 217.5 \\ \underline{14.5} \end{array}$$

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Toh Life Set Hai

Eg. Find the value of 32% of 725.

$$\begin{array}{r} 72.5 \times 3 = 217.5 \\ 14.5 \\ \hline 232 \end{array}$$



Eg. 25% of 28% of 30% of 45% of 160000.

$$\frac{25}{100} \cdot \frac{28}{100} \cdot \frac{30}{100} \cdot \frac{45}{100} \cdot 160,000$$

89 · 8
1512

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FRACTION TO PERCENTAGE VALUES

$$\frac{1}{1} = 100\%$$

$$\frac{1}{2} = 50\%$$

$$\frac{1}{3} = 33\frac{1}{3}\% \quad (3.33\%)$$

1
3

1
5

1
7

1
9

1
10

$$\frac{1}{6} = 16\frac{2}{3}\% \quad (16.66\%)$$

$$\frac{1}{7} = 14\frac{2}{7}\% \quad (14.28\%)$$

$$\frac{1}{8} = 12\frac{1}{2}\% \quad (12.5\%)$$

$$\frac{1}{9} = 11\frac{1}{9}\% \quad (11.11\%)$$

$$\frac{1}{10} = 10\%$$

$$\frac{a}{b} \times 100 =$$

FRACTION TO PERCENTAGE VALUES

$$\frac{1}{1} = 100\%$$

$$\frac{1}{2} = 50\%$$

$$\frac{1}{3} = 33\frac{1}{3}\% \text{ (33.33\%)}$$

$$\frac{1}{4} = 25\%$$

$$\frac{1}{5} = 20\%$$

$$\frac{1}{6} = 16\frac{2}{3}\% \text{ (16.66\%)}$$

$$\frac{1}{7} = 14\frac{2}{7}\% \text{ (14.28\%)}$$

$$\frac{1}{8} = 12\frac{1}{2}\% \text{ (12.5\%)}$$

$$\frac{1}{9} = 11\frac{1}{9}\% \text{ (11.11\%)}$$

$$\frac{1}{10} = 10\%$$

$$\frac{a}{b} \times 100 =$$

FRACTION TO PERCENTAGE VALUES

$$\frac{1}{1} = 100\%$$

$$\frac{1}{2} = 50\%$$

$$\frac{1}{3} = 33\frac{1}{3}\% \text{ (33.33\%)}$$

$$\frac{1}{5} = 20\%$$

$$\frac{1}{6} = 16\frac{2}{3}\% \text{ (16.66\%)}$$

$$\frac{1}{7} = 14\frac{2}{7}\% \text{ (14.28\%)}$$

$$\frac{1}{8} = 12\frac{1}{2}\% \text{ (12.5\%)}$$

$$\frac{1}{9} = 11\frac{1}{9}\% \text{ (11.11\%)}$$

$$\frac{1}{10} = 10\%$$

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$$\frac{1}{11} = 9\frac{1}{11}\% \text{ (9.09\%)}$$

$$\frac{1}{12} = 8\frac{1}{3}\% \text{ (8.33\%)}$$

$$\frac{1}{13} = 7\frac{9}{13}\% \text{ (7.69\%)}$$

$$\frac{1}{14} = 7\frac{1}{7}\% \text{ (7.14\%)}$$

$$\frac{1}{15} = 6\frac{2}{3}\% \text{ (6.66\%)}$$

$$\frac{1}{16} = 6\frac{1}{4}\% \text{ (6.25\%)}$$

$$\frac{1}{17} = 5\frac{15}{17}\% \text{ (5.88\%)}$$

$$\frac{1}{18} = 5\frac{5}{9}\% \text{ (5.55\%)}$$

$$\frac{1}{19} = 5\frac{5}{19}\% \text{ (5.26\%)}$$

$$\frac{1}{20} = 5\%$$

$$\frac{1}{11} = 9\frac{1}{11}\% \text{ (9.09\%)}$$

$$\frac{1}{12} = 8\frac{1}{3}\% \text{ (8.33\%)}$$

$$\frac{1}{13} = \text{ } \% \text{ (7.69\%)}$$

$$\frac{1}{14} = 7\text{ } \% \text{ (7.14\%)}$$

(6.66%)

$$\frac{1}{16} = 6\frac{1}{4}\% \text{ (6.25\%)}$$

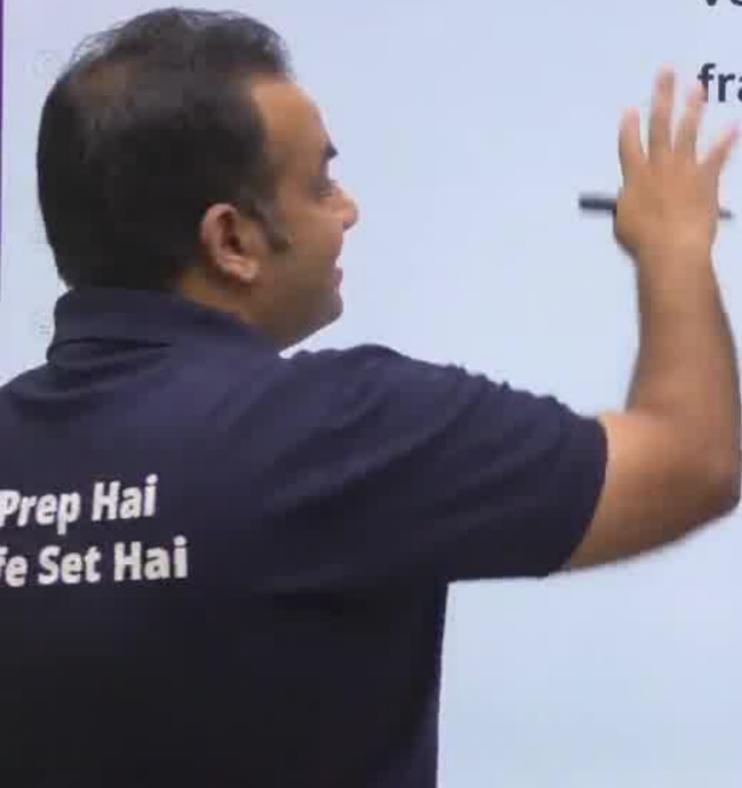
$$\frac{1}{17} = 5\frac{15}{17}\% \text{ (5.88\%)}$$

$$\frac{1}{18} = 5\frac{5}{9}\% \text{ (5.55\%)}$$

$$\frac{1}{19} = 5\frac{5}{19}\% \text{ (5.26\%)}$$

$$\frac{1}{20} = 5\%$$

Some values which can be calculated very easily, if you have learned fractions from $\frac{1}{1}$ to $\frac{1}{20}$.



$$\frac{2}{3}$$

$$\frac{3}{5}$$

$$\frac{5}{6}$$

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$$\frac{2}{3} \rightarrow \frac{1}{3} \times 2 \rightarrow 66 \frac{2}{3}\%$$

$$\frac{3}{5}$$

$$\frac{3}{4}$$

$$\frac{5}{6}$$

Sahi Prep Hai
Toh Life Set Hai

$$\frac{2}{3} \rightarrow \frac{1}{3} \times 2 \rightarrow 66 \frac{2}{3} \%$$

$$\frac{3}{5}$$

$$\frac{3}{4}$$

$$\frac{5}{6}$$

$$\frac{2}{3} \rightarrow \frac{1}{3} \times 2 \rightarrow 66\frac{2}{3}\%$$

$$\frac{3}{5} \rightarrow 3$$

$$\frac{3}{4}$$

Sahi Prep Hai
Toh Life Set Hai

$$\frac{2}{3} \rightarrow \frac{1}{3} \times 2 \rightarrow 66\frac{2}{3}\%$$

$$\frac{3}{5} \rightarrow \frac{1}{5} \cdot 3 \rightarrow 60\%$$

$$\frac{3}{4} \rightarrow$$

Sahi Prep Hai
Toh Life Set Hai

$$\frac{2}{3} \rightarrow \frac{1}{3} \times 2 \rightarrow 66\frac{2}{3}\%$$

$$\frac{3}{5} \rightarrow \frac{1}{5} \cdot 3 \rightarrow 60\%$$

$$\frac{3}{4} \rightarrow \frac{1}{4} \cdot 3 \rightarrow 75\%$$

**Sahi Prep Hai
Toh Life Set Hai**

$$\frac{5}{6} = \frac{6}{6} - \frac{1}{6}$$

$$= 100\% - 16\frac{2}{3}\%$$

$$= 83\frac{1}{3}\%$$

$$\frac{5}{2} \rightarrow \frac{1}{4} \times 5$$

$$16\frac{2}{3} \times 5$$

$$80 + 3\frac{1}{3}$$

$$83\frac{1}{3}\%$$

$$\frac{2}{3} \rightarrow \frac{1}{3} \times 2 \rightarrow 66\frac{2}{3}\%$$

$$\frac{3}{5} \rightarrow \frac{1}{5} \cdot 3 \rightarrow 60\%$$

$$\frac{3}{4} \rightarrow \frac{1}{4} \cdot 3 \rightarrow 75\%$$

$$\frac{5}{6} \rightarrow$$

$$\frac{5}{6} = \frac{6}{6} - \frac{1}{6}$$

$$= 100\% - 16\frac{2}{3}\%$$

$$= 83\frac{1}{3}\%$$

$$\frac{5}{2} \rightarrow \frac{1}{4} \times 5$$

$$16\frac{2}{3} \times 5$$

$$80 + 3\frac{1}{3}$$

$$\frac{2}{3} \rightarrow \frac{1}{3} \times 2 \rightarrow 66\frac{2}{3}\%$$

$$\frac{3}{5} \rightarrow \frac{1}{5} \cdot 3 \rightarrow 60\%$$

$$\frac{3}{4} \rightarrow \frac{1}{4} \cdot 3 \rightarrow 75\%$$

$83\frac{1}{3}\%$

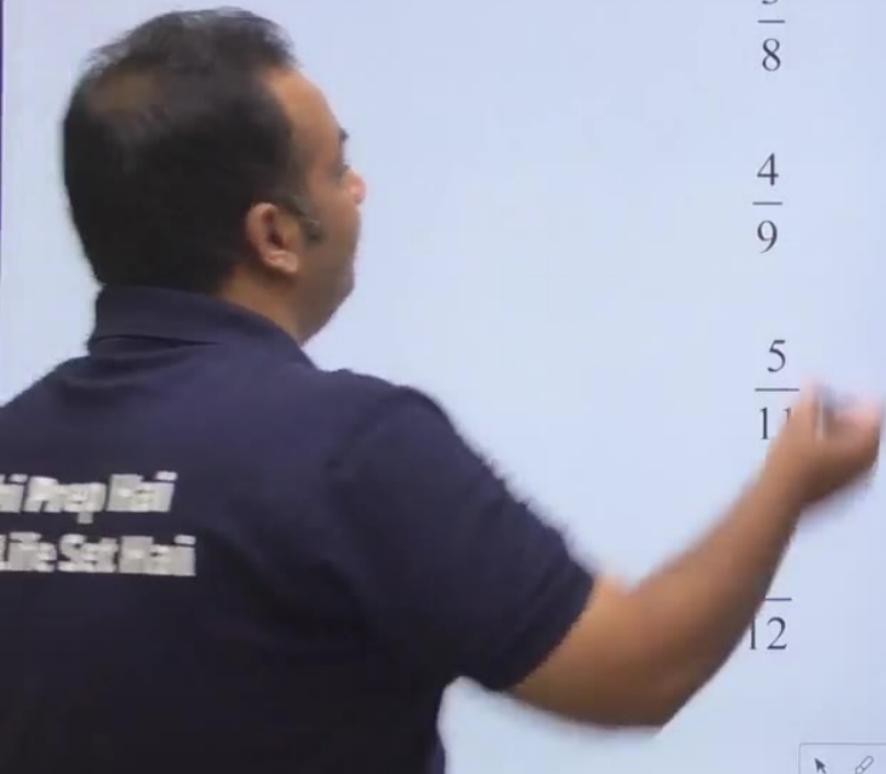
$$\frac{3}{7}$$

$$\frac{3}{8}$$

$$\frac{4}{9}$$

$$\frac{5}{11}$$

$$\frac{1}{12}$$



$$\frac{3}{7} \rightarrow 42\frac{6}{7}\%$$

$\frac{3}{7}$



$$\frac{3}{7} \rightarrow 42\frac{6}{7}\%$$

$$\frac{3}{\underline{7}} \rightarrow$$

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Toh Life Set Hai

$$\frac{7}{12}$$

$$\frac{3}{7} \rightarrow 42\frac{6}{7}\%$$

$$\frac{3}{8} \rightarrow 37\frac{1}{2}\%$$

$$\frac{4}{9} \rightarrow$$

$$\frac{5}{11}$$

$$\frac{7}{12}$$

Prep Hai
Life Set Hai

$$\frac{3}{7} \rightarrow 42\frac{6}{7}\%$$

$$\frac{3}{8} \rightarrow 37\frac{1}{2}\%$$

$$\frac{4}{9} \rightarrow 44\frac{4}{9}\%$$

$$\frac{5}{11} \rightarrow 45\frac{5}{11}\%$$

$$\frac{7}{12} \rightarrow$$

Sahi Prep Hai
Toh Life Set Hai

$$\frac{3}{7} \rightarrow 42\frac{6}{7}\%$$

$$\frac{7}{12} \rightarrow \frac{6}{12} + \frac{1}{12}$$

↓

$$50\% + 8$$

$$\frac{3}{8} \rightarrow 37\frac{1}{2}\%$$

$$\frac{4}{9} \rightarrow 44\frac{4}{9}\%$$

$$\frac{5}{11} \rightarrow 45\frac{5}{11}\%$$

$$\frac{7}{12} \rightarrow$$

$$\frac{3}{7} \rightarrow 42\frac{6}{7}\%$$

$$\frac{7}{12} \rightarrow \frac{6}{12} + \frac{1}{12}$$

↓

$$\frac{3}{8} \rightarrow 37\frac{1}{2}\%$$

$$50\% + 8\frac{1}{3}\%$$

$$\frac{4}{9} \rightarrow 44\frac{4}{9}\%$$

$$45\frac{5}{11}\%$$

$$58\frac{1}{3}\%$$

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Toh Life Set Hai

% INCREASE / DECREASE

Eg. Initial value Final value
 7 9

Eg. 8 5

$$\% \text{ Increase / Decrease} = \frac{\text{Final value} - \text{Initial value}}{\text{Initial value}} \times 100$$

% INCREASE / DECREASE

Eg.

Initial value Final value

7

9

$$\frac{2}{7} \rightarrow 28\frac{4}{7}\%$$

Eg.

8

5

$$\% \text{ Increase / Decrease} = \frac{\text{Final value} - \text{Initial value}}{\text{Initial value}} \times 100$$

% INCREASE / DECREASE

Eg.

Initial value Final value

7

9

$$\frac{2}{7} \rightarrow 28\frac{4}{7}\%$$

Eg.

8

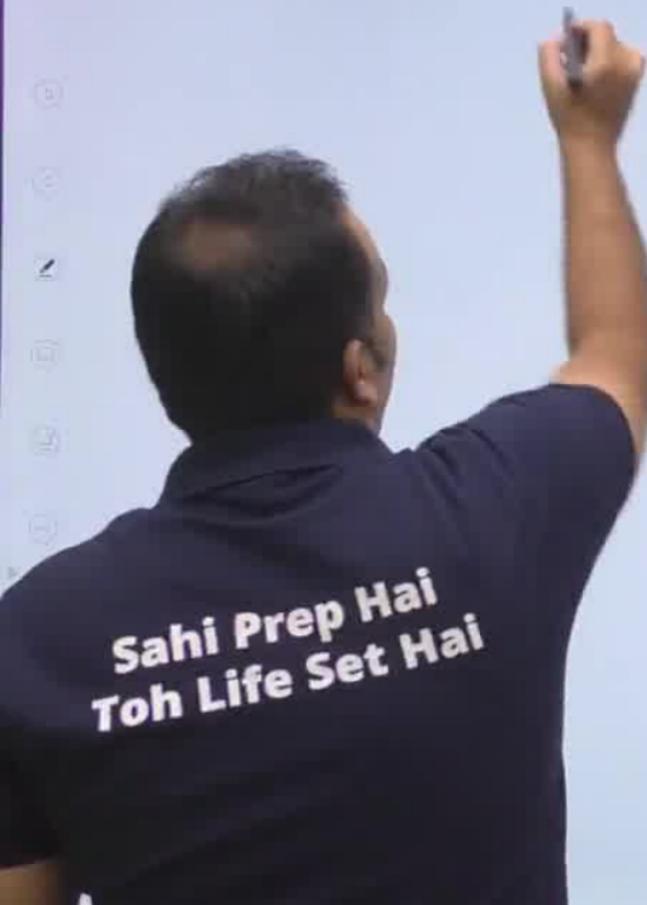
5

$$\frac{3}{8} \times 100 \Rightarrow 37\frac{1}{2}\%$$

$$\% \text{ Increase / Decrease} = \frac{\text{Final value} - \text{Initial value}}{\text{Initial value}} \times 100$$

Prep Hai
Life Set Hai

TRY TO IDENTIFY THE BASE VALUE



TRY TO IDENTIFY THE BASE VALUE

eg

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TRY TO IDENTIFY THE BASE VALUE

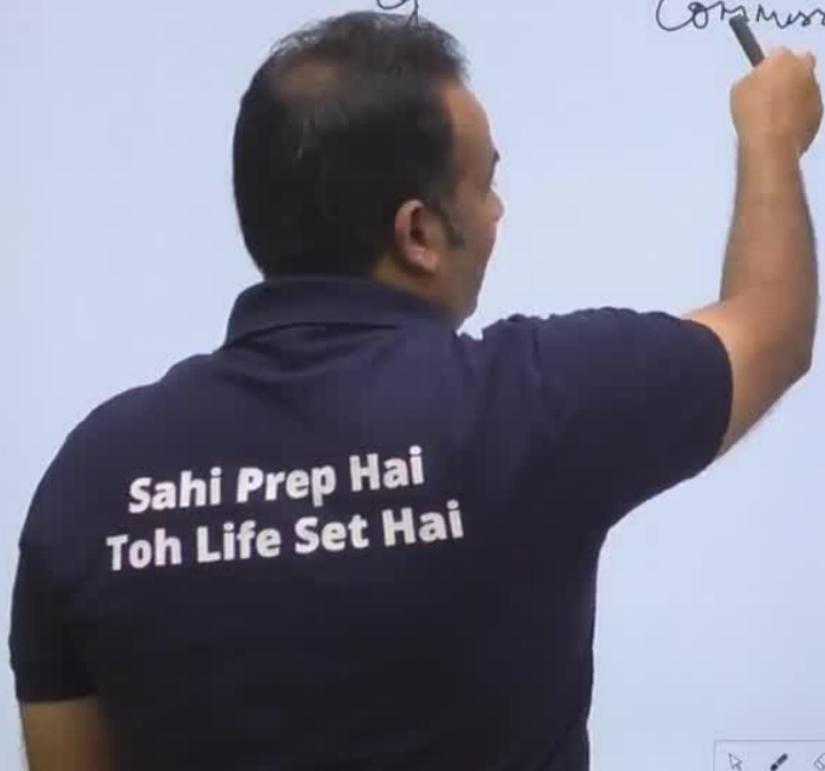
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Commission → 2% of Sale value

TRY TO IDENTIFY THE BASE VALUE

eg

Commission → 2% of Sale value



TRY TO IDENTIFY THE BASE VALUE

eg

Commission \rightarrow 2% of Sale value

68%

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TRY TO IDENTIFY THE BASE VALUE

eg Commission → 2% of sale value

68% marks

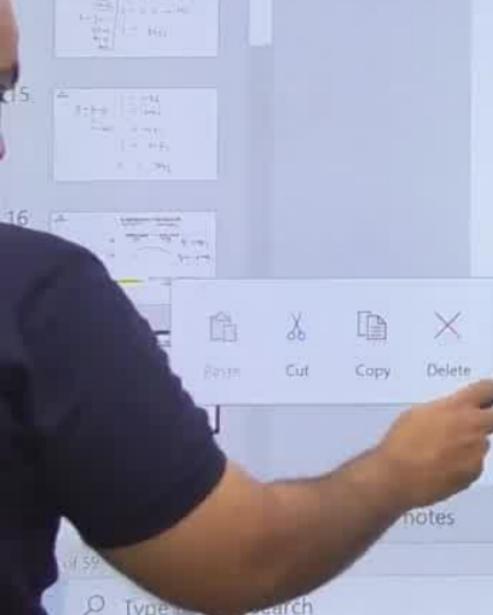
→ 68% of (Maximum Marks)

notes

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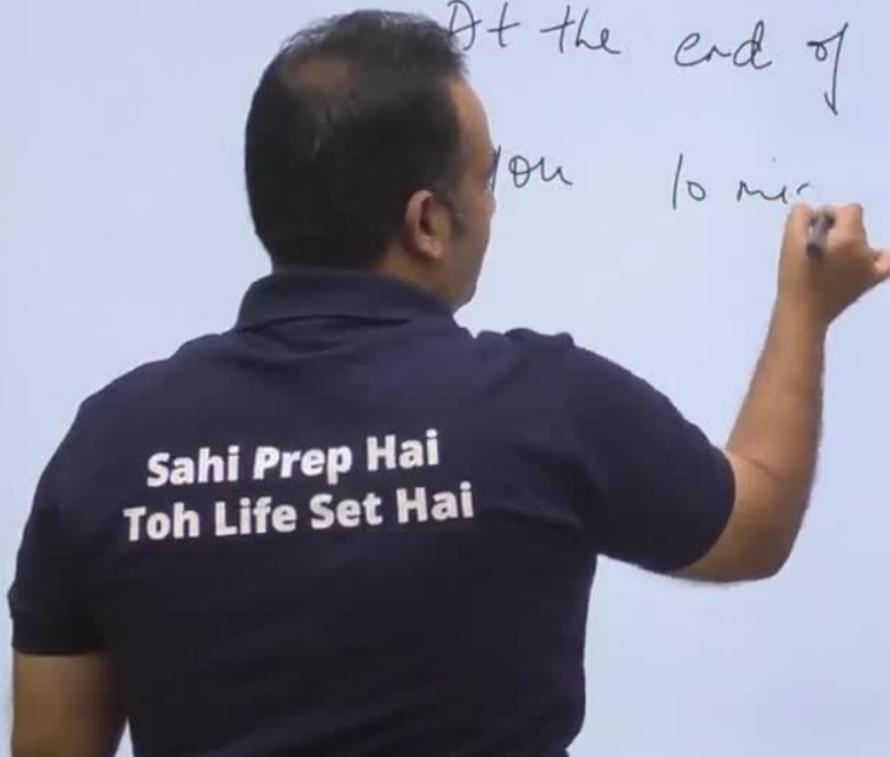
Those who are new to class

At the end

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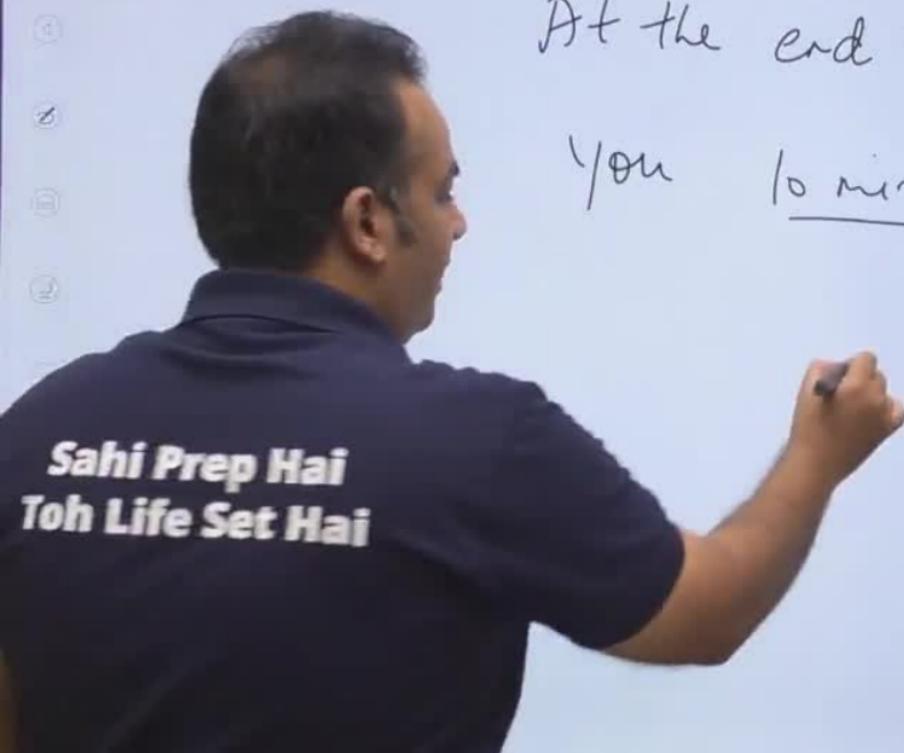
Those who are new to class

At the end of class I will give
you 10 min



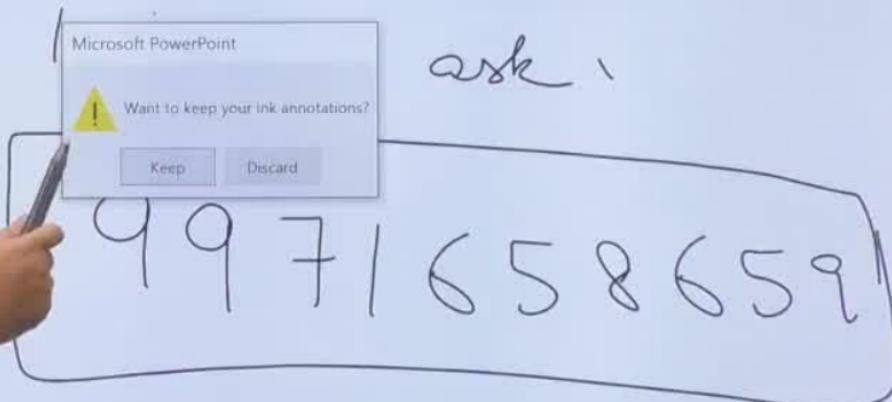
Those who are new to class

At the end of class I will give
you 10 min to ask.



Those who are new to class

At the end of class I will give
you ask :



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14

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At the end of class I will give you 10 min to ask.

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14

SOME BASIC STATEMENTS TO BE UNDERSTOOD

A = 240, B = 180, C = 300

(a) B is what percentage of C?

b) A is what percentage less than C?

Prep Hai
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Notes

11:52 AM

SOME BASIC STATEMENTS TO BE UNDERSTOOD

$$A = 240, B = 180, C = 300$$

(a) B is what percentage of C?

(b) A is what percentage less than C?

Prep Hai
Set Hai

SOME BASIC STATEMENTS TO BE UNDERSTOOD

$$\underline{A = 240}, \underline{B = 180}, \underline{C = 300}$$

(a) B is what percentage of C?

, A is what percentage less than C?

Sahi Prep Hai
Toh Life Set Hai

SOME BASIC STATEMENTS TO BE UNDERSTOOD

$$\frac{A = 240}{4}, \frac{B = 180}{3}, \frac{C = 300}{5}$$

(a) B is what percentage of C?

3

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Toh Life Set Hai

) what percentage less than C?

SOME BASIC STATEMENTS TO BE UNDERSTOOD

$$\frac{A = 240}{4}, \frac{B = 180}{3}, \frac{C = 300}{5}$$

(a) B is what percentage of C?

$$\frac{3}{5} \times 100 = 60\%$$

(b) A is what percentage less than C?

ahi Prep Hai
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SOME BASIC STATEMENTS TO BE UNDERSTOOD

$$\begin{array}{c} \cancel{A = 240}, \cancel{B = 180}, \cancel{C = 300} \\ \hline 4 & 3 & 5 \end{array}$$

(a) what percentage of C?

$$\frac{3}{5} \times 100 = 60\%$$

(b) A is what percentage less than C?

Sahi Prep Hai
Joh Life Set Hai

$$A = 240, B = 180, C = 300$$

(c) $(A + C)$ is how many times of B?

(d) $(A + C)$ is how many times more than B?



$$\begin{array}{c} A = \cancel{240}, B = \cancel{180}, C = \cancel{300} \\ 4 \quad 3 \quad 5 \end{array}$$

(c) $(A + C)$ is how many times of B?

$$\begin{array}{r} 4 \\ 3 \\ \hline 7 \end{array}$$

(d) $(A - C)$ is how many times more than B?

Sahi Prep Hai
Toh Life Set Hai

$$\begin{array}{c} A = \cancel{240}, B = \cancel{180}, C = \cancel{300} \\ 4 \quad 3 \quad 5 \end{array}$$

(c) $(A + C)$ is how many times of B?

$$\frac{9}{3} = \underline{3 \text{ Times}}$$

(d) $(A + C)$ is how many times more than B?

Sahi Prep Hai
Toh Life Set Hai

$$\begin{array}{c} \cancel{A = 240}, \cancel{B = 180}, \cancel{C = 300} \\ 4 \quad 3 \quad 5 \end{array}$$

(c) $(A + C)$ is how many times of B?

$$\frac{9}{3} = 3 \text{ Times}$$

(d) $(A + C)$ is how many times more than B?

$$\begin{array}{r} 9 \\ - 3 \\ \hline 6 \end{array}$$

Sahi Prep Hai
Toh Life Set Hai

SOME BASIC STATEMENTS TO BE UNDERSTOOD

$$\frac{A = 240}{4}, \frac{B = 180}{3}, \frac{C = 300}{5}$$

(a) B is what percentage of C?

$$\frac{3}{5} \times 100 = 60\%$$

A is what percentage less than C?

$$\frac{1}{5} \times 100 = 20\%$$

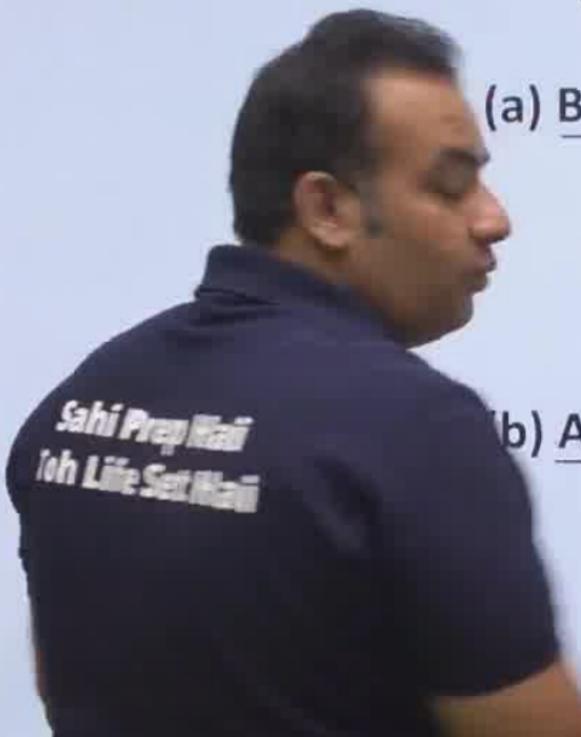
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SOME BASIC STATEMENTS TO BE UNDERSTOOD

$$\frac{A = 240}{4}, \frac{B = 180}{3}, \frac{C = 300}{5}$$

(a) B is what percentage of C?

$$\frac{3}{5} \times 100 = 60\%$$



(b) A is what percentage less than C?

$$\frac{1}{5} \times 100 = 20\%$$

$$\begin{array}{c} A = \cancel{240}, B = \cancel{180}, C = \cancel{300} \\ \quad 4 \quad 3 \quad 5 \end{array}$$

(c) $(A + C)$ is how many times of B?

$$\frac{9}{3} = \underline{3 \text{ Times}}$$

(d) $(A + C)$ is how many times more than B?

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

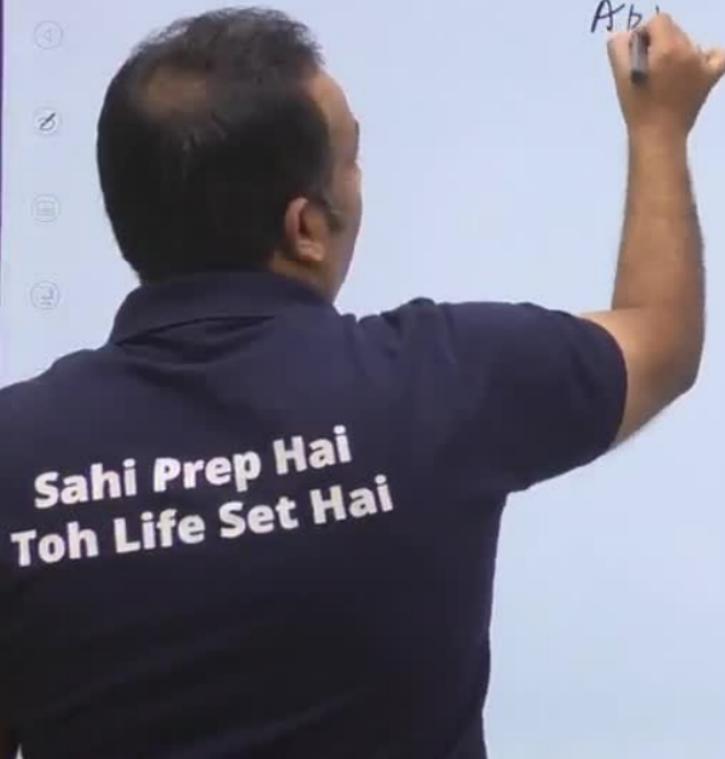
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$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array} = \underline{2 \text{ Times}}$$

Q1. If 12% of A = 15% of B. Find A : B

Detailed

A/B



Q1. If 12% of A = 15% of B. Find A : B

Detailed

12

A/B

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Q1. If 12% of A = 15% of B. Find A : B

Detailed
App

$$\frac{12}{100} A = \frac{15}{100} B$$

$$12A = 15B$$

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Q1. If 12% of A = 15% of B. Find A : B

Detailed

App

$$\frac{12}{100} A = \frac{15}{100} B$$

$$12A = 15B$$

$$\frac{A}{B} = \frac{15}{12}$$

Shortcut

Q1. If 12% of A = 15% of B. Find A : B

Detailed
App

$$\frac{12}{100} A = \frac{15}{100} B$$

$$12A = 15B$$

$$\frac{A}{B} = \frac{15}{12}$$

Shortcut

~~$$12\cancel{1.5} A = 15\cancel{1.5} B$$~~

$$A : B = 5 : 4$$

(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.



(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.

Detailed

$$\frac{12}{15}$$

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(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.

Detailed

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$



(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.

Detailed
A

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$

$$12A = 15B = 20C = K$$

$$\begin{matrix} A \\ K \end{matrix}$$

Sahi Prep Hai
Toh Life Set Hai

(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.

Detailed
Ans

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$

$$12A = 15B = 20C = K$$

$$\begin{array}{ccc} A & B & C \\ \frac{K}{12} & \frac{K}{15} & \frac{K}{20} \end{array}$$

Sahi Prep Hai
Toh Life Set Hai

(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.

Detailed
App

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$

$$12A = 15B = 20C = K$$

$$\begin{array}{ccc} A & B & C \\ \frac{K}{12} & \frac{K}{15} & \frac{K}{20} \end{array}$$

$$5 : 4 : 3$$

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Life Set Hai

(b) If 12% of A = 15% of B = 20% of C,
then A : B : C.

Detailed

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$

$$12A = 15B = 20C = K$$

$$\begin{array}{ccc} A & B & C \\ \frac{K}{12} & \frac{K}{15} & \frac{K}{20} \end{array}$$

$$5 : 4 : 3$$

Sahi Prep Hai
Toh Life Set Hai

start

(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.

Detailed
App

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$

$$A = 15B = 20C = K$$

$$\begin{array}{ccc} A & B & C \\ \frac{K}{12} & \frac{K}{15} & \frac{K}{20} \end{array}$$

$$5 : 4 : 3$$

Sahi Prep Hai
Toh Life Set Hai

Shortcut

$$\begin{array}{ccc} A & B & C \\ 5 & 4 & 3 \end{array}$$

(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.

Detailed
App

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$

$$12A = 15B = 20C = K$$

$$\begin{array}{ccc} A & B & C \\ \frac{K}{15} & & \frac{K}{20} \end{array}$$

$$S : U : Z$$

$$\begin{array}{ccc} A & B & C \\ S & U & Z \end{array}$$

Sahi Prep Hai
Toh Life Set Hai

(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.

Detailed

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$

$$12A = 15B = 20C = K$$

$$\begin{array}{ccc} A & B & C \\ \frac{K}{12} & \frac{K}{15} & \frac{K}{20} \end{array}$$

$$5 : 4 : 3$$

Shortcut

$$\begin{array}{ccc} A : B : C \\ 5 : 4 : 3 \end{array}$$

(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C

Detailed
App

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$

$$= 15B = 20C = K$$

$$\begin{array}{ccc} A & B & C \\ \frac{K}{12} & \frac{K}{15} & \frac{K}{20} \end{array}$$

$$5 : 4 : 3$$

$$\begin{array}{ccc} A & B & C \\ 5 & 4 & 3 \end{array}$$

(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.

Detailed

by

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$

$$12A = 15B = 20C = K$$

$$\begin{array}{ccc} A & B & C \\ \frac{K}{12} & \frac{K}{15} & \frac{K}{20} \end{array}$$

$$5 : 4 : 3$$

Shortcut

$$\begin{array}{ccc} A : B : C \\ 5 : 4 : 3 \end{array}$$

(c) If 105% of $A = 110\%$ of $B = 115\%$ of C .

Find $A : B : C$.

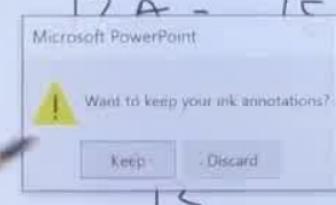


(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.

Detailed
App

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C = K$$

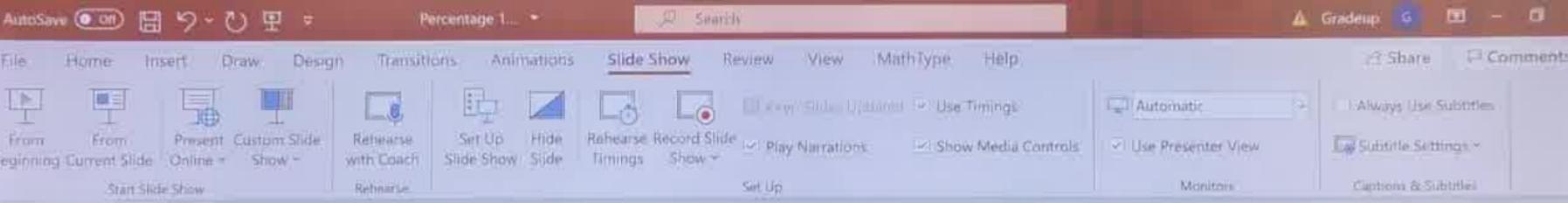


$$B = \frac{K}{15} \quad C = \frac{K}{20}$$

$$5 : 4 : 3$$

Shortcut

$$\begin{matrix} A & : & B & : & C \\ 5 & & 4 & & 3 \end{matrix}$$



(b) If 12% of A = 15% of B = 20% of C,
then find A : B : C.

Detailed
App

$$\frac{12}{100} A = \frac{15}{100} B = \frac{20}{100} C$$

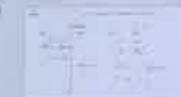
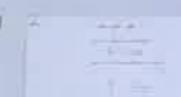
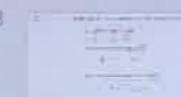
$$12A = 15B = 20C = K$$

$$\begin{array}{ccc} A & B & C \\ \cancel{K} & \cancel{K} & \cancel{K} \\ 12 & 15 & 20 \end{array}$$

$$5 - 4 - 3$$

Shortcut

$$\begin{array}{ccc} A & B & C \\ 5 & 4 & 3 \end{array}$$



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eg



eg

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(c) If 105% of A = 110% of B = 115% of C.

Find A : B : C.

Detailed App

105%

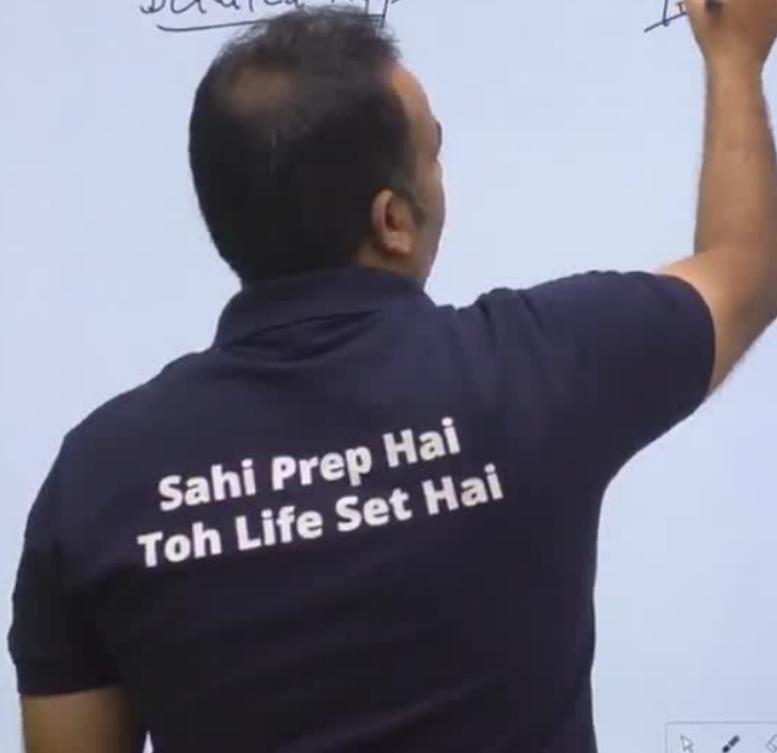
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(c) If $105\% \text{ of } A = 110\% \text{ of } B = 115\% \text{ of } C$.

Find $A : B : C$.

Detailed App

$$\frac{105}{100}A = \frac{110}{100}B = \frac{115}{100}C$$



(c) If 105% of A = 110% of B = 115% of C.

Find A : B : C.

Detailed App

$$\frac{105}{100} \cdot A = \frac{110}{100} B = \frac{115}{100} C$$

$$21A = 22B = 23C = K$$

A

$$\frac{K}{21}$$

B

$$\frac{K}{22}$$

C

$$\frac{K}{23}$$

(c) If $105\% \text{ of } A = 110\% \text{ of } B = 115\% \text{ of } C$.

Find $A : B : C$.

Detailed App

$$\frac{21}{105\%} A = \frac{22}{110\%} B = \frac{23}{115\%} C$$

$$22B = 23C = K$$

B

$$\frac{K}{22}$$

C

$$\frac{K}{23}$$

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(c) If $105\% \text{ of } A = 110\% \text{ of } B = 115\% \text{ of } C$.

Find $A : B : C$.

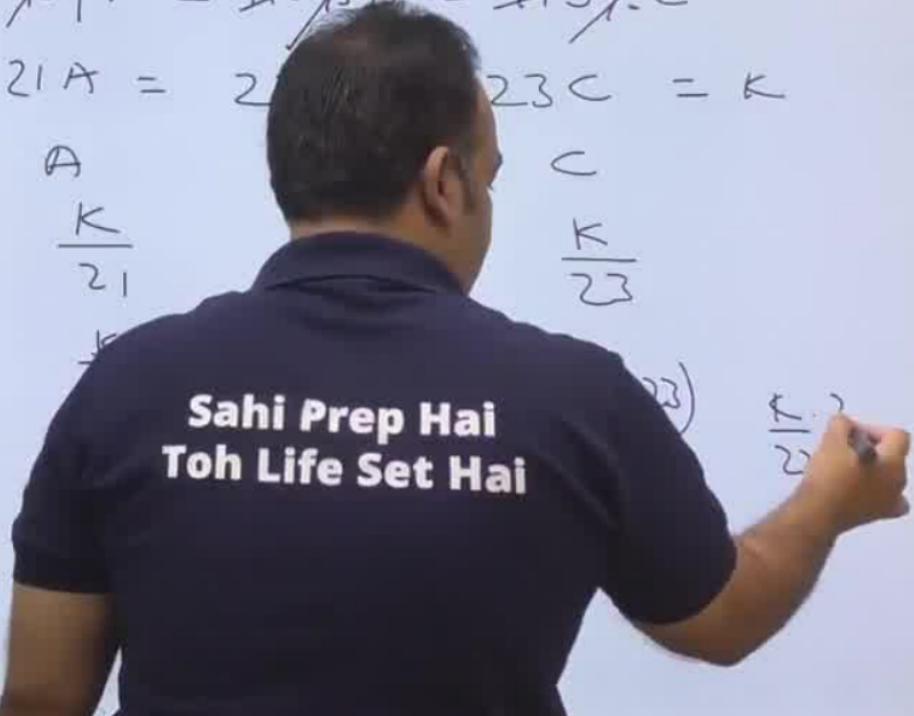
Detailed App

$$\frac{105}{100} A = \frac{110}{100} B = \frac{115}{100} C$$
$$21A = 22B = 23C = K$$

$$A = \frac{K}{21}$$

$$C = \frac{K}{23}$$

Sahi Prep Hai
Toh Life Set Hai



(c) If $105\% \text{ of } A = 110\% \text{ of } B = 115\% \text{ of } C$.

Find $A : B : C$.

Detailed App

$$\frac{21}{105\%} \cdot A = \frac{22}{110\%} B = \frac{23}{115\%} C$$

$$21A = 22B = 23C = k$$

$$\begin{array}{ccc} A & B & C \\ \frac{k}{21} & \frac{k}{22} & \frac{k}{23} \end{array}$$

$$\frac{\frac{k}{21}(x_1 x_2 x_3)}{\frac{k}{21}(x_1 x_2 x_3)} : \frac{\frac{k}{22}(x_1 x_2 x_3)}{\frac{k}{22}(x_1 x_2 x_3)} : \frac{\frac{k}{23}(x_1 x_2 x_3)}{\frac{k}{23}(x_1 x_2 x_3)}$$

506

483 : 462

(c) If $105\% \text{ of } A = 110\% \text{ of } B = 115\% \text{ of } C$.

Find $A : B : C$.

Detailed App

$$\frac{21}{105\%} A = \frac{22}{110\%} B = \frac{23}{115\%} C$$

$$21A = 22B = 23C = K$$

$$\begin{array}{ccc} A & B & C \\ \frac{K}{21} & \frac{K}{22} & \frac{K}{23} \end{array}$$

$$(x_{122-21})$$

$$506$$

$$\frac{K}{22}(21x_{122-21})$$

$$483$$

$$\frac{K}{21}(21x_{122-21})$$

$$462$$

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Toh Life Set Hai

(c) If $105\% \text{ of } A = 110\% \text{ of } B = 115\% \text{ of } C$.

Find $A : B : C$.

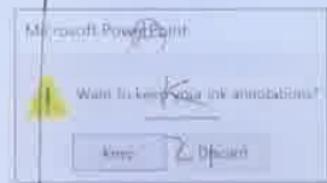
Detailed App

$$\frac{21}{105\%} A = \frac{22}{110\%} B = \frac{23}{115\%} C$$

$$21A = 22B = 23C = K$$

Shortcut

$$21A = 22B = 23C$$



B

$$\frac{K}{22}$$

C

$$\frac{K}{23}$$

$$A : B : C$$

$$22 \cdot 23$$

$$21 \cdot 23$$

$$21 \cdot 22$$

$$506 : 483 : 462$$

$$\frac{K}{22}(21 \cdot 23)$$

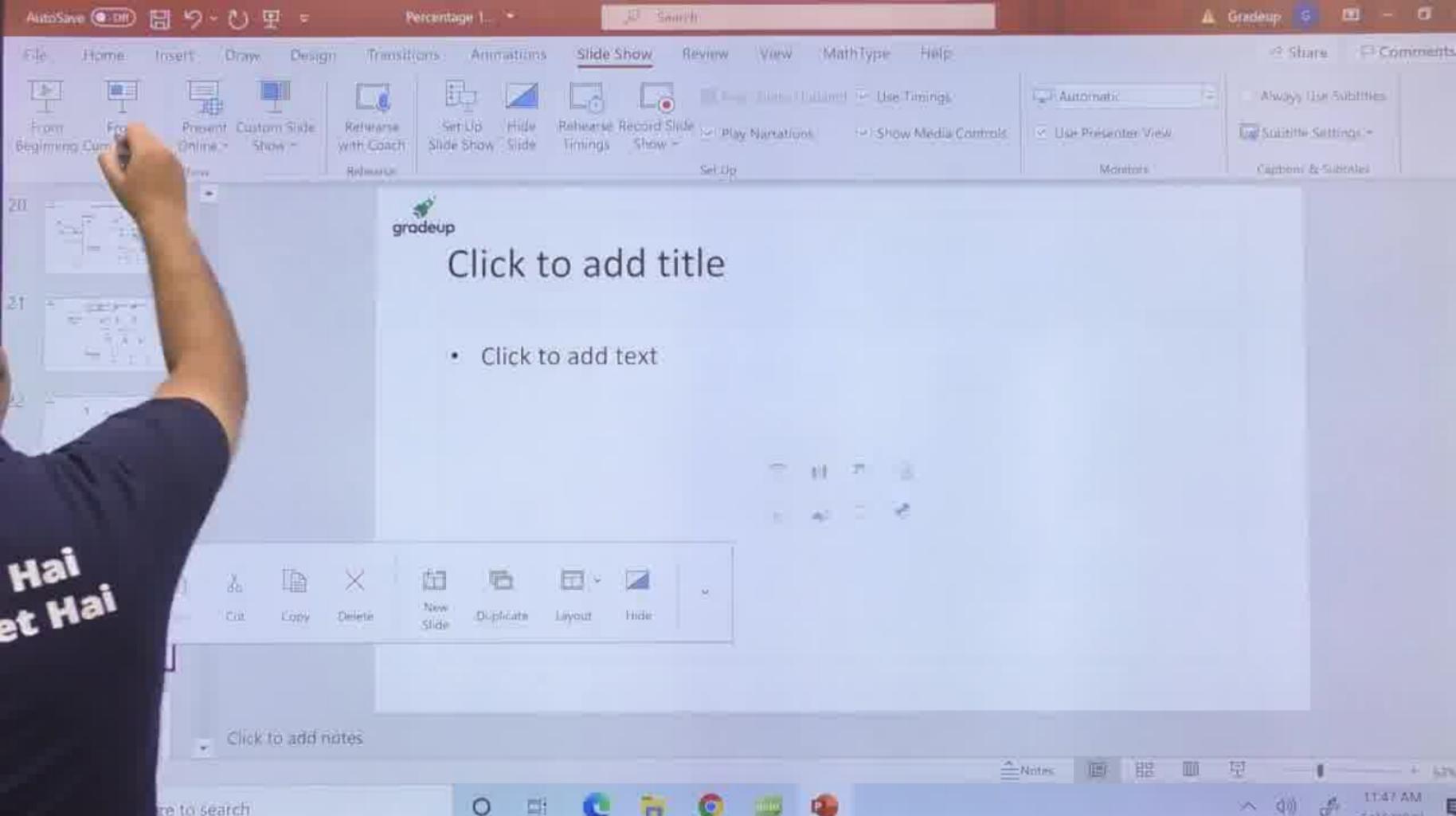
$$506$$

$$\frac{K}{23}(21 \cdot 22)$$

$$483$$

$$\frac{K}{21}(21 \cdot 22)$$

$$462$$



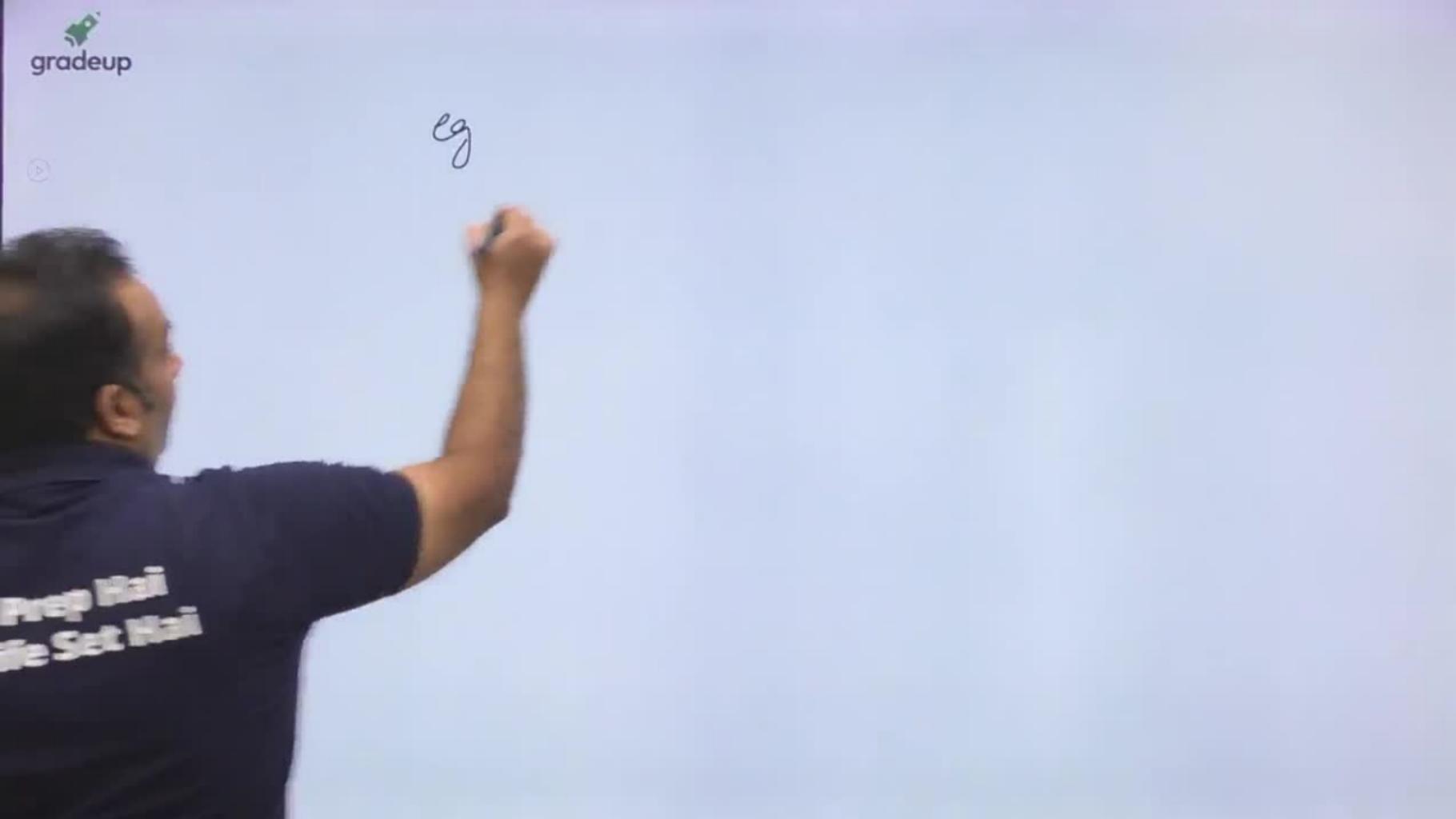
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Sahi Prep Hai
Toh Life Set Hai

eg

| t

Sahi Prep Hai
Toh Life Set Hai

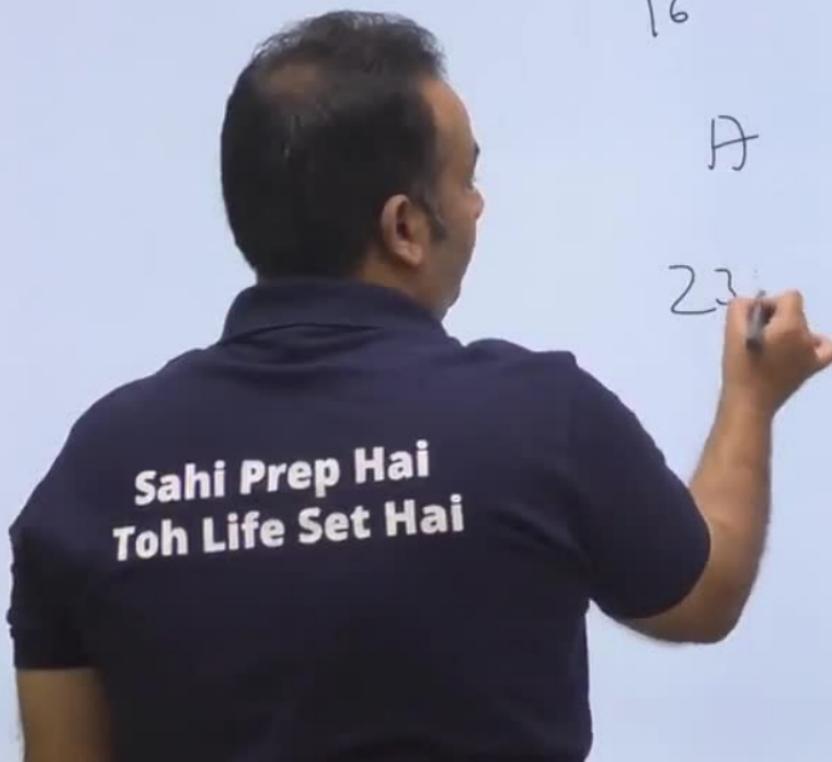


eg

$$\frac{80\% \text{ of } A}{16} = \frac{90\% \text{ of } B}{18} = \frac{65\% \text{ of } C}{13}$$

A : B : C

23



eg

$$\frac{80\% \text{ of } A}{16} = \frac{90\% \text{ of } B}{18} = \frac{65\% \text{ of } C}{13}$$

$$A : B : C$$

Sahi Prep Hai
Toh Life Set Hai

eg

$$\frac{80\% \text{ of } A}{16} = \frac{90\% \text{ of } B}{18} = \frac{65\% \text{ of } C}{13}$$

$$\begin{array}{ccc} A & : & B & : & C \\ 9 & & 13 & & \\ 16 & & 18 & & \end{array}$$



eg

$$\frac{80\% \text{ of } A}{16} = \frac{90\% \text{ of } B}{18} = \frac{65\% \text{ of } C}{13}$$

$$\begin{array}{ccc} A & : & B & : & C \\ \cancel{18}^9 & & \cancel{18}^8 & & \cancel{18}^8 \\ & 13 & & 13 & & 18 \\ \hline & 117 & : & 104 & : & 144 \end{array}$$

(d) If $\frac{2}{3}$ of A = 60% of B = 0.75 of C = $57\frac{1}{7}\%$ of D.

Find A : B : C : D

and

A =

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(d) If $\frac{2}{3}$ of A = 60% of B = 0.75 of C = $57\frac{1}{7}\%$ of D.

Find A : B : C : D.

D

$$\frac{2}{3} A = \underline{3}$$

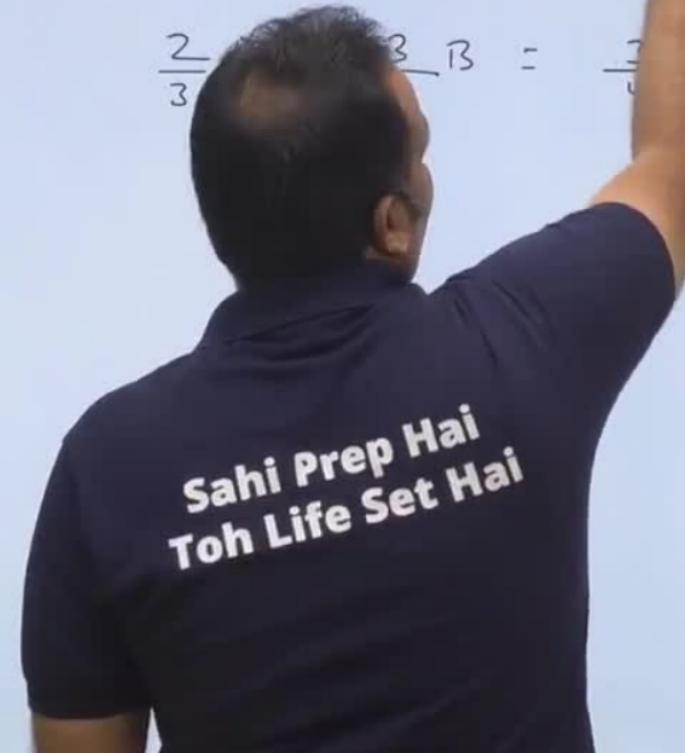
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(d) If $\frac{2}{3}$ of A = 60% of B = 0.75 of C = $57\frac{1}{7}\%$ of D.

Find A : B : C : D.

Detailed

$$\frac{2}{3} A = \frac{3}{5} B = \frac{3}{4} C = \frac{50}{7} D$$



(d) If $\frac{2}{3}$ of A = 60% of B = 0.75 of C = $57\frac{1}{7}\%$ of D.

Find A : B : C : D.

$$\frac{2}{3}A = \frac{3}{5}B = \frac{3}{4}C = \frac{4}{7}D = K$$

$$\begin{matrix} A \\ \frac{3}{4} \end{matrix}$$

Sahi Prep Hai
Toh Life Set Hai

(d) If $\frac{2}{3}$ of A = 60% of B = 0.75 of C = $57\frac{1}{7}\%$ of D.

Find A : B : C : D.

Detailed $\frac{2}{3}A = \frac{3}{5}B = \frac{3}{4}C = \frac{4}{7}D = K$

$$\begin{array}{ll} A & B \\ \frac{3}{2}K & \frac{5}{3}L \end{array}$$

Sahi Prep Hai
Toh Life Set Hai

(d) If $\frac{2}{3}$ of A = 60% of B = 0.75 of C = $57\frac{1}{7}\%$ of D.

Find A : B : C : D.

Dets

$$\frac{2}{3}A = \frac{3}{5}B = \frac{3}{4}C = \frac{4}{7}D = K$$

$$\begin{array}{cccc} A & B & C & D \\ \underline{\frac{3}{2}K} & \underline{\frac{5}{3}K} & \underline{\frac{4}{3}K} & \underline{\frac{7}{4}K} \end{array}$$

18

Sahi Prep Hai
Toh Life Set Hai

(d) If $\frac{2}{3}$ of A = 60% of B = 0.75 of C = $57\frac{1}{7}\%$ of D.

Find A : B : C : D.

$$\frac{2}{3}A = \frac{3}{5}B = \frac{3}{4}C = \frac{4}{7}D = K$$

$$\begin{array}{cccc} A & B & C & D \\ \underline{\frac{3}{2}K} & \underline{\frac{5}{3}K} & \underline{\frac{4}{3}K} & \underline{\frac{7}{4}K} \end{array}$$

$$18 : 20 : 16 : 21$$

(d) If $\frac{2}{3}$ of A = 60% of B = 0.75 of C = $57\frac{1}{7}\%$ of D.

Find A : B : C : D.

Detailed

$$\frac{2}{3} A = \frac{3}{5} B = \frac{3}{4} C = \frac{4}{7} D = K$$

A

$$\frac{3}{2}K$$

C

$$\frac{4}{7}K$$

Sahi Prep Hai
Toh Life Set Hai

: 21

(d) If $\frac{2}{3}$ of A = 60% of B = 0.75 of C = $57\frac{1}{7}\%$ of D.

Find A : B : C : D.

$$\frac{57+1}{7} \cdot \frac{1}{100} = \frac{400}{700}$$

Detailed

$$\frac{2}{3}A = \frac{3}{5}B = \frac{3}{4}C = \frac{400}{700}D = K$$

$$\begin{array}{ccc} A & B & C \\ \frac{3}{2}K & \frac{5}{3}K & \frac{4}{3}K \end{array}$$

18 : 20

Sahi Prep Hai
Toh Life Set Hai

(d) If $\frac{2}{3}$ of A = 60% of B = 0.75 of C = $57\frac{1}{7}\%$ of D.

Find A : B : C : D.

$$\frac{2 \cdot 57+1}{7} \cdot \frac{1}{100} = \frac{115}{700}$$

$$A = \frac{3}{5}B = \frac{3}{4}C = \frac{4}{7}D = K$$

$$\begin{array}{cccc} A & B & C & D \\ \frac{3}{2}K & \frac{5}{3}K & \frac{4}{3}K & \frac{28}{21}K \end{array}$$

18	:	20	-	16	:	21
----	---	----	---	----	---	----

(d) If $\frac{2}{3}$ of A = 60% of B = 0.75 of C = $57\frac{1}{7}\%$ of D.

Find A : B : C : D.

$$\frac{2 \cdot 57 + 1}{7} \cdot \frac{1}{100} = \frac{115}{700}$$

Detailed

$$\frac{2}{3}A = \frac{3}{5}B = \frac{3}{4}C = \frac{4}{7}D = K$$

Short cut

A B C D

$$\frac{3}{2} : \frac{5}{3} : \frac{4}{3} : \frac{7}{4}$$

$$18 : 20 : 16 : 21$$

A	B	C	D
$\frac{3}{2}K$	$\frac{5}{3}K$	$\frac{4}{3}K$	$\frac{7}{4}K$

$$18 : 20 : 16 : 21$$

(e) If $0.4A = 16\frac{2}{3}\%$ of B = 50% of C = $\frac{3}{5}$ of D.

Find A : B : C : D.

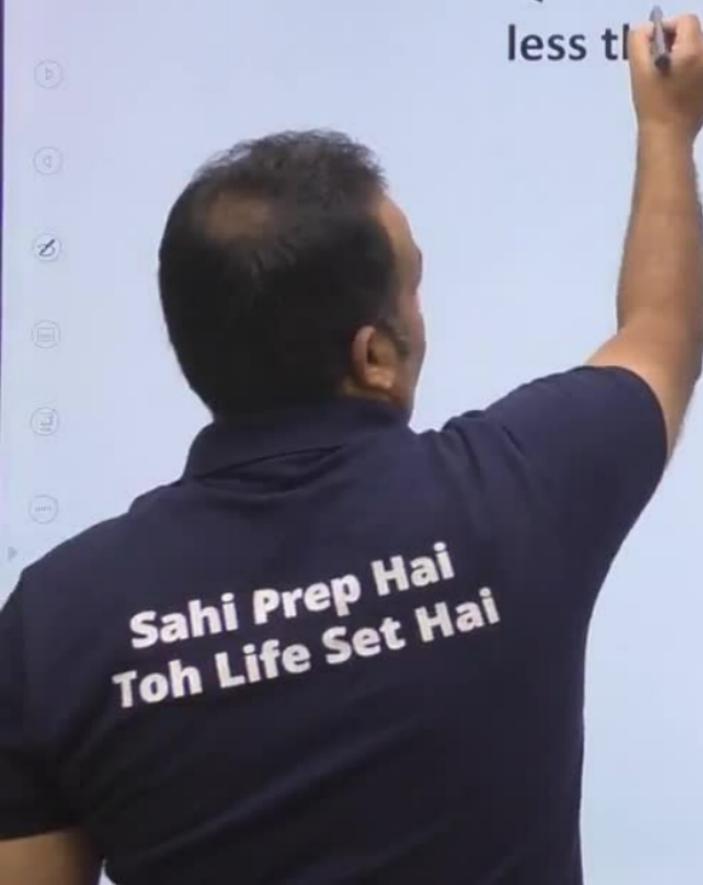


(e) If $0.4A = 16\frac{2}{3}\%$ of B = 50% of C = $\frac{3}{5}$ of D.

Find A : B : C : D.

$$\begin{array}{cccc} A & B & C & D \\ \frac{5}{2} & : & \frac{6}{1} & : \frac{2}{1} & : \frac{5}{3} \end{array}$$

Q2. If A is 20% more than B, then B is what percentage less than A?



Q2. If A is 20% more than B, then B is what percentage less than A?



(e) If $0.4A = 16\frac{2}{3}\%$ of B = 50% of C = $\frac{3}{5}$ of D.

Find A : B : C : D.

A

B

C

D

$$\frac{5}{2}$$

$$\frac{6}{1}$$

$$\frac{2}{1}$$

$$\frac{5}{3}$$

$$15 : 36 : 12 : 15$$

Q2. If A is 20% more than B, then B is what percentage less than A?

A

120

B

100

**Sahi Prep Hai
Toh Life Set Hai**

Q2. If A is 20% more than B, then B is what percentage less than A?

I^A

A

B

100

$$\frac{200}{120} \cdot 100$$

$$= 16\frac{2}{3}\%$$

Sahi Prep Hai
Toh Life Set Hai

$\frac{1}{5}$

Q2. If A is 20% more than B, then B is what percentage less than A?

 I^{st}

B

 II^{nd}

Sahi Prep Hai
Toh Life Set Hai

100

 $\frac{2}{3} \text{ h.}$

1/5x

Q2. If A is 20% more than B, then B is what percentage less than A?

Ist

A

120

B

100

IInd

A

B

5

$$\frac{200}{120} \cdot 100$$

$$= 16\frac{2}{3}\%$$

1/5/21

Q2. If A is 20% more than B, then B is what percentage less than A?

A

B

120

100

$$\frac{20}{120}$$

$$16\frac{2}{3}\%$$

IIⁿ

A

B

6

5

$$\frac{1}{6} \times 100$$

$$= 16\frac{2}{3}\%$$

Q2. If A is 20% more than B, then B is what percentage less than A?

1/5x

I

$$\begin{array}{c} A \\ = B + 20\% \\ = B + \frac{1}{5}B \\ = \frac{6}{5}B \\ = 120\% \end{array}$$

II

$$\begin{array}{c} A \\ = 120\% \\ B \\ = 100\% \\ \text{Difference} \\ = 20\% \\ = \frac{1}{5}A \end{array}$$

A B

$$\begin{array}{cc} 6 & 5 \\ \frac{1}{6} & \times 100 \\ = 16\frac{2}{3}\% \end{array}$$

1/50 ✓

Q2. If A is 20% more than B, then B is what percentage less than A?

A

120

B

100

$$\frac{200}{120} = 100$$

$$= 16\frac{2}{3}\%$$

IInd

A

6

B

5

$$\frac{1}{6} \times 100$$

$$= 16\frac{2}{3}\%$$

If A is 37.5% more than B, then B is what percentage less than A?

37.5%

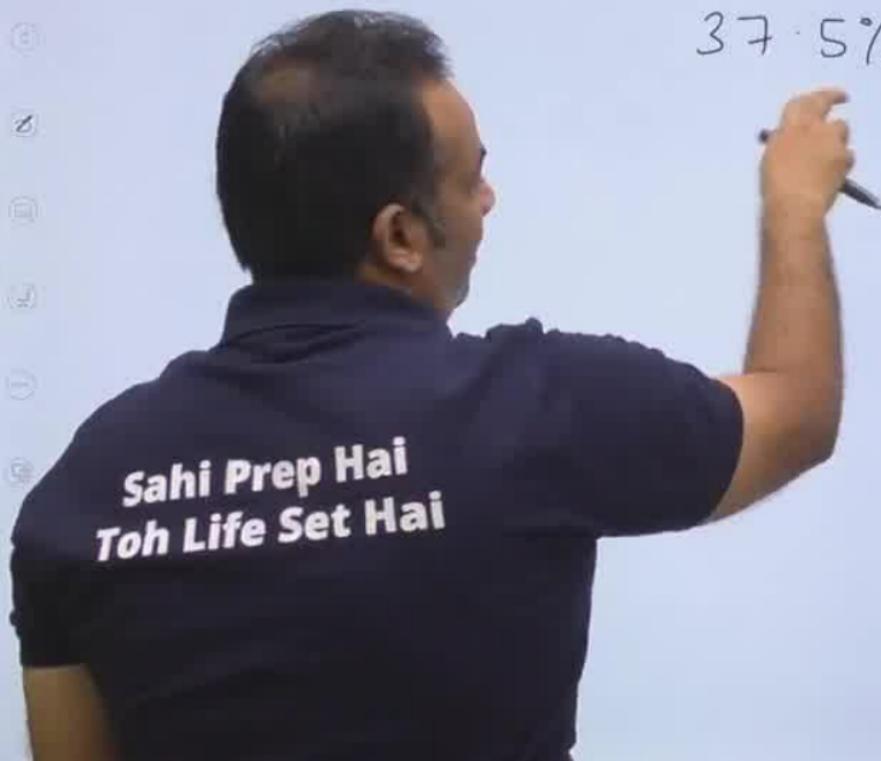
Sahi Prep Hai
Toh Life Set Hai

If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \frac{3}{8}$$

If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \frac{3}{8}$$



If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \left(\frac{3}{8}\right)$$

A

11

B

8

*Sahi Prep Hai
Toh Life Set Hai*

If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \left(\frac{3}{8} \right)$$

A

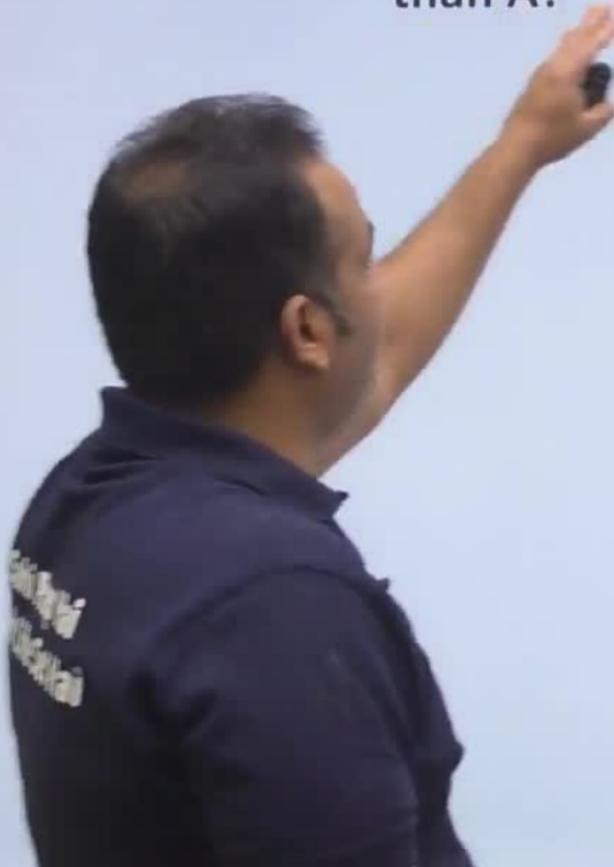
11

B

8



If A is 37.5% more than B, then B is what percentage less than A?



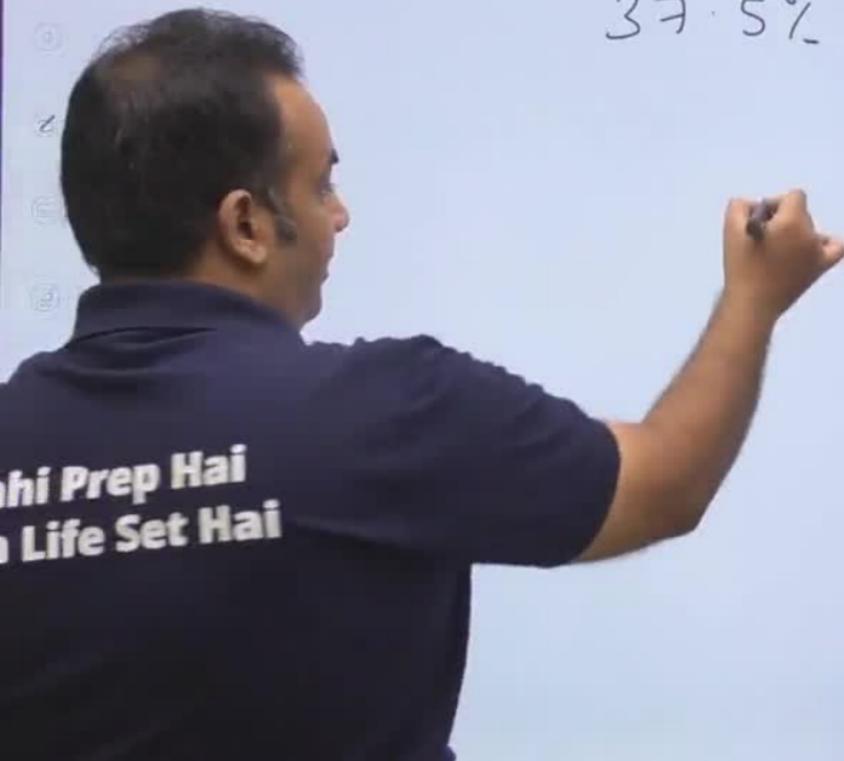
If A is 37.5% more than B, then B is what percentage less than A?

37.5%

Sahi Prep Hai
Toh Life Set Hai

If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \frac{37.5}{100} = \frac{3}{8}$$



If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \frac{37.5}{100} = \frac{3}{8}$$

A

11

B

8

Sahi Prep Hai
Toh Life Set Hai

If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \frac{37.5}{100} = \frac{3}{8}$$

A

11

B

8

$$\frac{3}{8}$$

**Sahi Prep Hai
Toh Life Set Hai**

If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \frac{37.5}{100} = \frac{3}{8}$$

A
11

B
8

$$\frac{3}{11} \times 100$$

**Sahi Prep Hai
Toh Life Set Hai**

If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \frac{37.5}{100} = \frac{3}{8}$$

A
11

B
8

$$\frac{3}{11} \times 100$$

$$27\frac{3}{11}\%$$

Sahi Prep Hai
Toh Life Set Hai

If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \frac{37.5}{100} = \frac{3}{8}$$

A
B
11
8

$$\frac{3}{11} \times 100$$

$$27\frac{3}{11}\%$$

Sahi Prep Hai
Toh Life Set Hai

If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \frac{37.5}{100} = \frac{3}{8}$$

B

8

Sahi Prep Hai
Toh Life Set Hai

If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \frac{375}{1000} = \frac{3}{8}$$

A
11

B
8

$$\frac{3}{8} = 37.5\%$$

$$\frac{3}{11} = 27.27\%$$

Sahi Prep Hai
Toh Life Set Hai

If A is 37.5% more than B, then B is what percentage less than A?

$$37.5\% \rightarrow \frac{37.5}{100} = \frac{3}{8}$$

A

11

B

8

$$\frac{3}{11} \times 100$$

$$\underline{27\frac{3}{11}\%}$$

Sahi Prep Hai
Toh Life Set Hai

(b) If A is 20% less than B, then B is what percentage more than A?



(b) If A is 20% less than B, then B is what percentage more than A?

A

4

B

5

Sahi Prep Hai
Toh Life Set Hai

(b) If A is 20% less than B, then B is what percentage more than A?

A

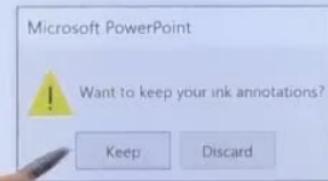
4

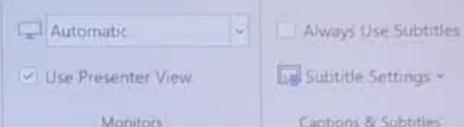
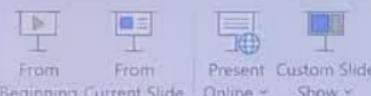
B

5

$$\frac{1}{4} \times 100 = 25\%$$

If A is 15.38% less than B, then B is what percentage more than A?





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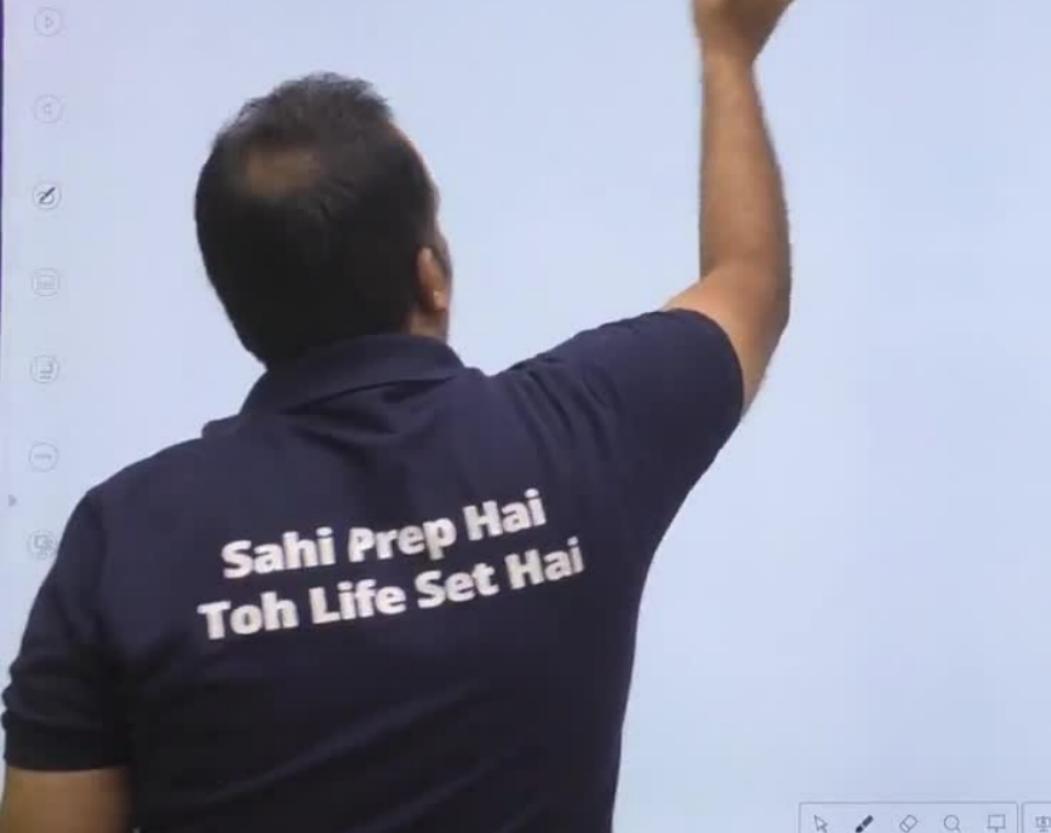


If A is 15.38% less than B, then B is what percentage more than A?

Click to add notes

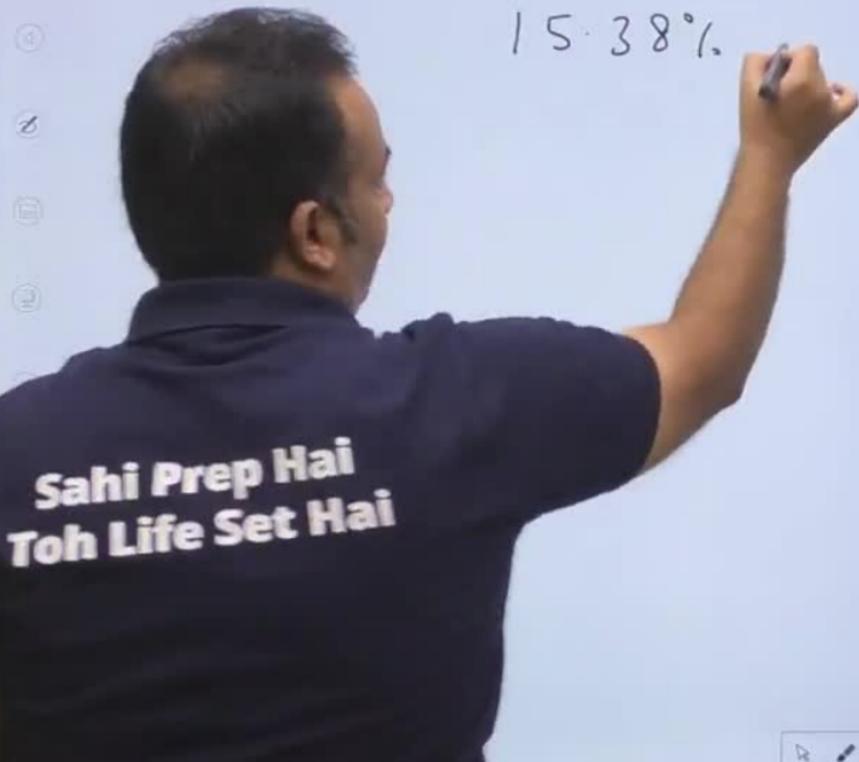


If A is 15.38% less than B, then B is what percentage more than A?



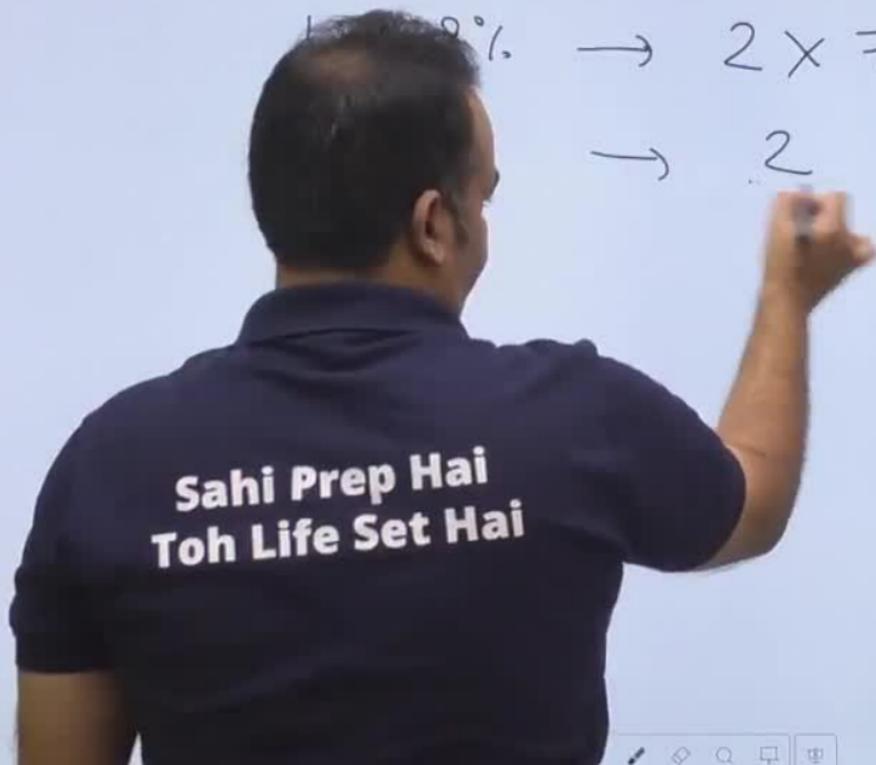
If A is 15.38% less than B, then B is what percentage more than A?

15.38%.



If A is 15.38% less than B, then B is what percentage more than A?

$$\begin{aligned} 15.38\% &\rightarrow 2 \times 7.69\% \\ &\rightarrow 2 \end{aligned}$$



If A is 15.38% less than B, then B is what percentage more than A?

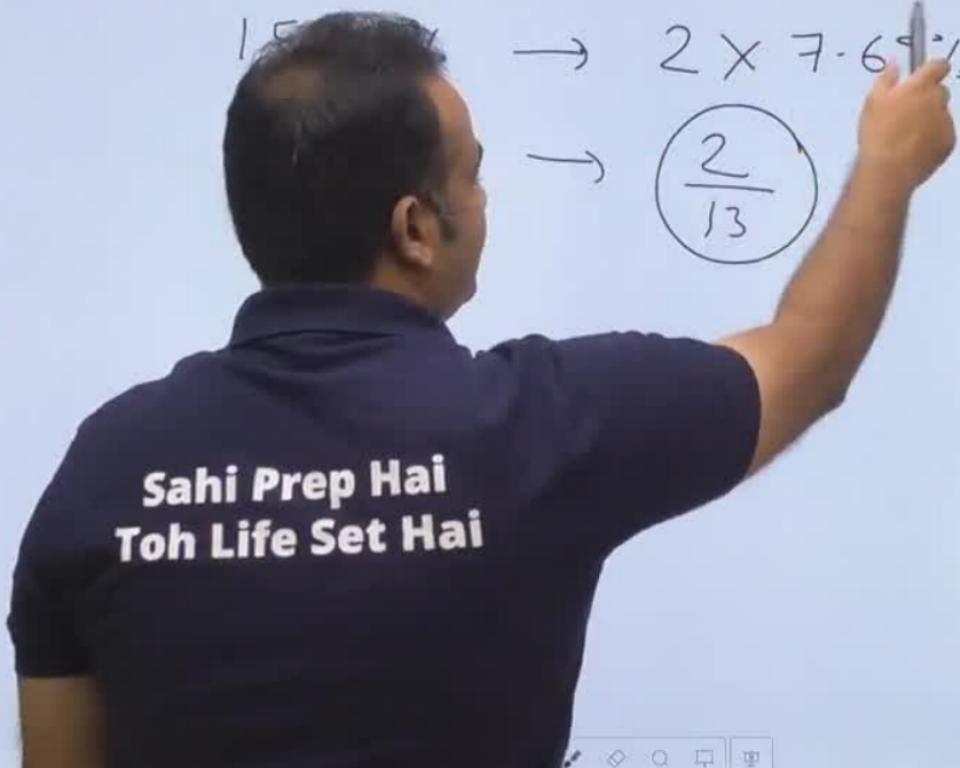
$$15.38\% \rightarrow 2 \times 7.69\%$$

$$\rightarrow \frac{2}{13}$$



If A is 15.38% less than B, then B is what percentage more than A?

$$\begin{aligned} 15.38\% &\rightarrow 2 \times 7.6\% \\ &\rightarrow \frac{2}{13} \end{aligned}$$



If A is 15.38% less than B, then B is what percentage more than A?

$$15.38\% \rightarrow 2 \times 7.69\%$$

$$\rightarrow \textcircled{B}$$

A

B

Sahi Prep Hai
Toh Life Set Hai

If A is 15.38% less than B, then B is what percentage more than A?

$$15.38\% \rightarrow 2 \times 7.69\%$$

$$\rightarrow \frac{2}{13}$$

A

11

B

13

2

Sahi Prep Hai
Toh Life Set Hai

If A is 15.38% less than B, then B is what percentage more than A?

$$15.38\% \rightarrow 2 \times 7.69\%$$

$$\rightarrow \frac{2}{13}$$

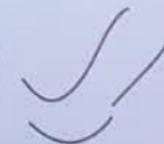
A

11

B

13

$$\frac{2}{11} \times 100 = 18\frac{2}{11}\%$$



If A is 15.38% less than B, then B is what percentage more than A?

$$15.38\% \rightarrow 2 \times 7.69\%$$

$$\rightarrow \frac{2}{13}$$

A

11

B

13

$$11 \times 100 = 18\frac{2}{11}\%$$



If A is 15.38% less than B, then B is what percentage more than A?

$$28\% \rightarrow 2 \times 7.69\%$$

$$\frac{2}{13}$$

B
11 13

$$\frac{2}{11} \times 100 = 18\frac{2}{11}\%$$



(c) If A is increased by 30% then by what percentage it should be decreased so that it attains its original value?



(b) If the length of the rectangle is decreased by 30% then by what percentage its breadth be increased, so that there is no change in area?

Ans. $42\frac{6}{7}\%$

(c) If A is increased by 30% then by what percentage it should be decreased so that it attains its original value?

3.



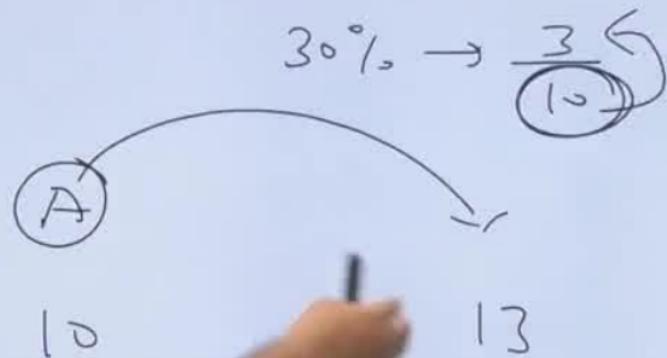
(c) If A is increased by 30% then by what percentage it should be decreased so that it attains its original value?

$$30\% \rightarrow \frac{3}{10}$$

(A)

Sahi Prep Hai
Toh Life Set Hai

(c) If A is increased by 30% then by what percentage it should be decreased so that it attains its original value?



Chi Prep Hai
Life Set Hai

(c) If A is increased by 30% then by what percentage it should be decreased so that it attains its original value?

A hand-drawn diagram on a whiteboard. At the top right, there is a fraction $\frac{3}{10}$ with a circled '10' under the denominator. An arrow points from this fraction down to a circle containing the number '13'. From the '13' circle, an arrow points left to a circle containing '100'. From the '100' circle, an arrow points up to the fraction $\frac{3}{10}$. This forms a circular flow between the three values.

$$\frac{3}{10} \rightarrow \begin{matrix} 13 \\ 100 \end{matrix}$$

$$23 + 13\%$$

Sahi Prep Hai
Yah Life Set Hai

PRODUCT CONSTANCY RULE

$$A \times B = \text{Constant}$$

(i) Price \times Quantity = Expenditure

(ii) Length \times Breadth = Area

(iii) Speed \times Time = Distance

PRODUCT CONSTANCY RULE

$$A \times B = \text{Constant}$$

(i) Price \times Quantity = Expenditure

(ii) Length \times Breadth = Area

Time = Distance

Sahi Prep Hai
Toh Life Set Hai

PRODUCT CONSTANCY RULE

$$A \times B = \text{Constant}$$

(i) Price \times Quantity = Expenditure

(ii) Length \times Breadth = Area

(iii) Speed \times Time = Distance

Sahi Prep Hai
Toh Life Set Hai

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gradeup

PRODUCT CONSTANCY RULE

A \times B = Constant

(i) Price \times Quantity = Expenditure
↑↓ ↓↑

(ii) Length \times Breadth = Area

(iii) Speed \times Time = Distance

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30

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Price/ Pen \times Qty Purchased = Expenditures

$$12 \text{ Rs} \times 20 = 240 \text{ Rs}$$

$$16 \text{ Rs} \times 15 = 240 \text{ Rs}$$

Prep Hai
Life Set Hai

Q3. (a) If price of sugar is increased by 20% then by what percentage consumption be reduced so that there is no change in expenditure?

Price

1.

Sahi Prep Hai
oh Life Set Hai

Q3. (a) If price of sugar is increased by 20% then by what percentage consumption be reduced so that there is no change in expenditure?



Q3. (a) If price of sugar is increased by 20% then by what percentage consumption be reduced so that there is no change in expenditure?

Price

$\uparrow 20\%$

$$\left(\frac{1}{5} \right)$$

Consumption



Expenditure

No change

S

*Sahi Prep Hai
Toh Life Set Hai*

Q3. (a) If price of sugar is increased by 20% then by what percentage consumption be reduced so that there is no change in expenditure?

Price

$\uparrow 20\%$

$$\left(\frac{1}{5} \right)$$

Consumption



Expenditure

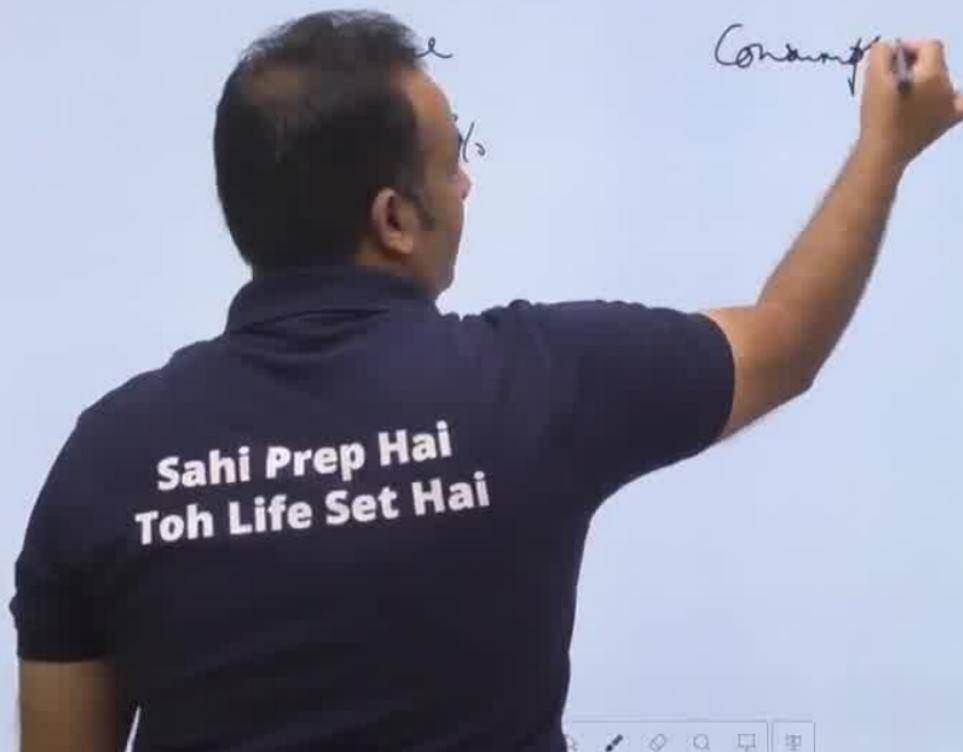
No change



(b) If the length of the rectangle is decreased by 30% then by what percentage its breadth be increased, so that there is no change in area?



Q3. (a) If price of sugar is increased by 20% then by what percentage consumption be reduced so that there is no change in expenditure?



Q3. (a) If price of sugar is increased by 20% then by what percentage consumption be reduced so that there is no change in expenditure?

Price

$\uparrow 20\%$

Exp

Sahi Prep Hai
Toh Life Set Hai

Q3. (a) If price of sugar is increased by 20% then by what percentage consumption be reduced so that there is no change in expenditure?

Price	Consumption	Exp
$\uparrow 20\%, (\frac{1}{5})$	\downarrow	\times

5

6

Q3. (a) If price of sugar is increased by 20% then by what percentage consumption be reduced so that there is no change in expenditure?

Price	Consumption	Exp
$\uparrow 20\% \left(\frac{1}{5} \right)$	\downarrow	x
5	$6 \underbrace{9}_{5}$	<hr/> <hr/>
	$\frac{1}{5} \times 100$	
	$= 16\frac{2}{3}\%$	

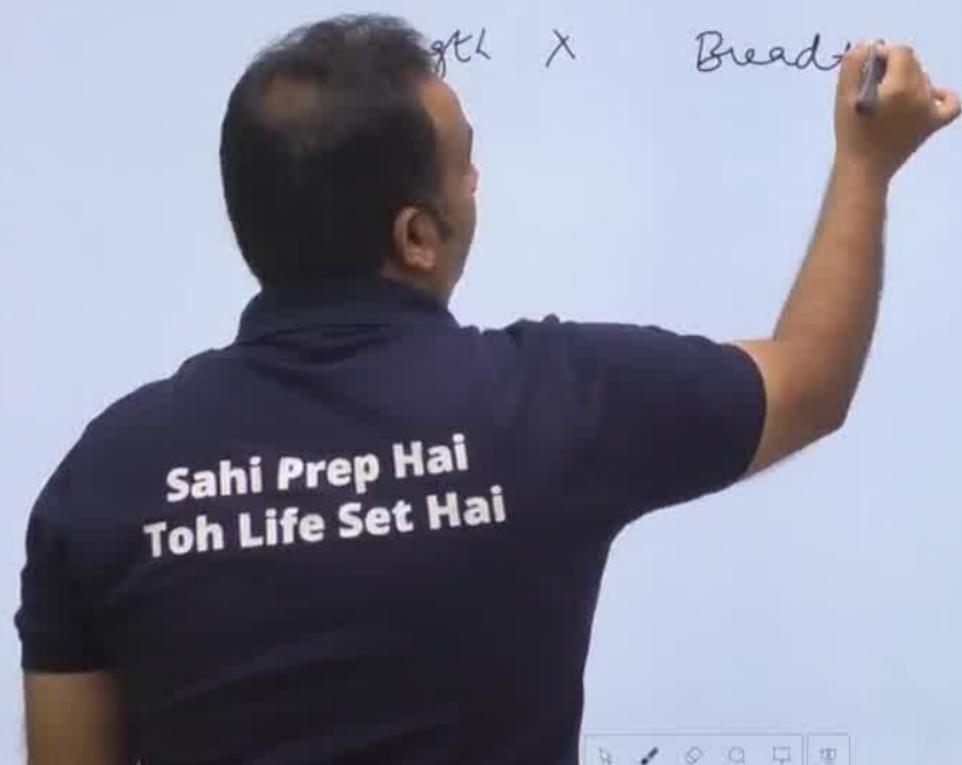
Sahi Prep Hai
Toh Life Set Hai

(b) If the length of the rectangle is decreased by 30% then by what percentage its breadth be increased, so that there is no change in area?

Length

Sahi Prep Hai
Toh Life Set Hai

(b) If the length of the rectangle is decreased by 30% then by what percentage its breadth be increased, so that there is no change in area?



(b) If the length of the rectangle is decreased by 30% then by what percentage its breadth be increased, so that there is no change in area?

$$30\% \left(\frac{3}{10} \right) \text{ length} \times \text{Breadth} = \text{Area}$$

$$\begin{matrix} 7 \\ + 9 \\ \hline 16 \end{matrix}$$

$$\frac{3}{10}$$

Sahi Prep Hai
Toh Life Set Hai

(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what

percentage his time will reduce to cover the same distance?



(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what percentage his time will reduce to cover the same distance?

$$23\frac{1}{3}\%$$

Sahi Prep Hai
Toh Life Set Hai

(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what percentage his time will reduce to cover the same distance?

$$23\frac{1}{3}\% \rightarrow \frac{70}{300}$$

Speed

Sahi Prep Hai
Toh Life Set Hai

(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what percentage his time will reduce to cover the same distance?

$$23\frac{1}{3}\% \rightarrow \frac{70}{300}$$

$$\text{Speed} \times \text{Time} = \text{Distance}$$

Step Hai
Set Hai

(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what percentage his time will reduce to cover the same distance?

$$23\frac{1}{3}\% \rightarrow \frac{70}{300}$$

$$\text{Speed} \times \text{Time} = \text{Distance}$$

3.

Sahi Prep Hai
Toh Life Set Hai

(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what percentage his time will reduce to cover the same distance?

$$23\frac{1}{3}\% \rightarrow \frac{70}{300}$$

$$\text{Speed} \times \text{Time} = \text{Distance}$$

30

37

Sahi Prep Hai
Toh Life Set Hai

(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what percentage his time will reduce to cover the same distance?

$$23\frac{1}{3}\% \rightarrow \frac{70}{300}$$

$$\times \text{Time} = \text{Distance}$$

$$\begin{array}{c} 37 \\ - 30 \\ \hline 7 \end{array}$$



(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what percentage his time will reduce to cover the same distance?

$$23\frac{1}{3}\% \rightarrow \frac{70}{300}$$

Speed \times

30

Distance

Sahi Prep Hai
Toh Life Set Hai

(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what percentage his time will reduce to cover the same distance?

$$23\frac{1}{3}\% \rightarrow \frac{70}{300}$$

$$\text{Speed} \times \text{Time} = \text{Distance}$$

$$\begin{matrix} 30 \\ 37 \end{matrix}$$

$$\begin{matrix} 37 \\ 30 \end{matrix}$$

$$\frac{7}{37} \times 100 = \boxed{18\frac{34}{37}\%}$$

(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what percentage his time will reduce to cover the same distance?

$$23\frac{1}{3}\% \rightarrow \frac{70}{300}$$

$$\text{Speed} \times \text{Time} = \text{Distance}$$

$$\begin{array}{c} 30 \\ \times \\ 37 \\ \hline \end{array}$$

$$\begin{array}{c} 37 \\ \times \\ 30 \\ \hline \end{array}$$

$$\frac{7}{37} \times 100 = \frac{18\frac{34}{37}\%}{1}$$

(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what percentage his time will reduce to cover the same distance?

$$23\frac{1}{3}\% \rightarrow \frac{76}{300}$$

$$\text{Speed} \times \text{Time} = \text{Distance}$$

$$\begin{array}{c} 30 \\ \times 37 \\ \hline \end{array}$$

$$\begin{array}{c} 37 \\ \times 30 \\ \hline \end{array}$$

$$\frac{7}{37} \times 100$$

SUCCESSIVE PERCENTAGE CHANGE



34

gradeup

(c) If a person increases his speed by $23\frac{1}{3}\%$ then by what percentage his time will reduce to cover the same distance?

$23\frac{1}{3}\% \rightarrow \frac{76}{30}\%$

Speed \times Time = Distance

30 37
37 30

$\frac{30}{37} \times 100 = 18\frac{14}{37}\%$

Hai
Hai

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Notes 12:14 PM

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Percentage 1% Search

Gradeup

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Prep Hai
Set Hai

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Notes

12:19 PM

A person's arm and shoulder are visible on the left side of the screen, pointing towards the slide content.

↑

Sahi Prep Hai
Toh Life Set Hai

Any Queries from New students



Any Queries from New students

971658659

Message

Whatsapp

Telegram

Any Queries from New students

9.09% -

Sahi Prep Hai
Toh Life Set Hai

Any Queries from New students

$$9.09\% = \frac{9.09}{100}$$

$$\frac{1}{100}$$

Prep Hai
Life Set Hai

Any Queries from New students

$$9.09\% = \frac{9.09}{100}$$

$$\frac{1}{11} \rightarrow 9.09\%$$

*Sahi Prep Hai
Toh Life Set Hai*











