

FRACTION TO PERCENTAGE CONVERSION

- Convert $\frac{7}{3}$ in percentage

$$\begin{aligned}\frac{7}{3} &\Rightarrow 2 + \frac{1}{3} \\ &\Rightarrow 200\% + 33\frac{1}{3}\% \\ &\Rightarrow 233\frac{1}{3}\%\end{aligned}$$

- Convert $\frac{11}{3}$ in percentage

$$\begin{aligned}\frac{11}{3} &\Rightarrow 3 + \frac{2}{3} \\ &\Rightarrow 300\% + 66\frac{2}{3}\% \\ &\Rightarrow 366\frac{2}{3}\%\end{aligned}$$

- Convert $\frac{17}{4}$ in percentage

$$\begin{aligned}\frac{17}{4} &\Rightarrow 4 + \frac{1}{4} \\ &\Rightarrow 400\% + 25\% \\ &\Rightarrow 425\%\end{aligned}$$

- Convert $\frac{23}{6}$ in percentage

$$\begin{aligned}\frac{23}{6} &\Rightarrow 3 + \frac{5}{6} & \frac{1}{6} &= 16\frac{2}{3}\% \\ &\Rightarrow 300\% + 83\frac{1}{3}\% & \frac{5}{6} &= 5 \times 16\frac{2}{3}\% \\ &\Rightarrow 383\frac{1}{3}\% & &= 83\frac{1}{3}\%\end{aligned}$$

or $\frac{23}{6} \Rightarrow 4 - \frac{1}{6}$

$$\begin{aligned}&\Rightarrow 400\% - 16\frac{2}{3}\% \\ &\Rightarrow 383\frac{1}{3}\%\end{aligned}$$

- Convert $\frac{39}{6}$ in percentage

$$\begin{aligned}\frac{39}{6} &\Rightarrow \frac{13}{2} \Rightarrow 6 + \frac{1}{2} \\ &\Rightarrow 600\% + 50\% \\ &\Rightarrow 650\%\end{aligned}$$

- Convert $\frac{62}{15}$ in percentage

$$\begin{aligned}\frac{62}{15} &\Rightarrow 4 + \frac{2}{15} \\ &\Rightarrow 400\% + 13\frac{1}{3}\% \\ &\Rightarrow 413\frac{1}{3}\%\end{aligned}$$

- Convert $\frac{37}{4}$ in percentage

$$\begin{aligned}\frac{37}{4} &\Rightarrow 9 + \frac{1}{4} \\ &\Rightarrow 900\% + 25\% \\ &\Rightarrow 925\%\end{aligned}$$

- Convert $\frac{26}{5}$ in percentage

$$\begin{aligned}\frac{26}{5} &\Rightarrow 5 + \frac{1}{5} \\ &\Rightarrow 500\% + 20\% \\ &\Rightarrow 520\%\end{aligned}$$

- Convert $\frac{30}{7}$ in percentage

$$\begin{aligned}\frac{30}{7} &\Rightarrow 4 + \frac{2}{7} \\ &\Rightarrow 400\% + 28\frac{4}{7}\% \\ &\Rightarrow 428\frac{4}{7}\%\end{aligned}$$

- Convert $\frac{40}{13}$ in percentage
 $\frac{40}{13} \Rightarrow 3 + \frac{1}{13}$
 $\Rightarrow 300\% + 7\frac{9}{13}\%$
 $\Rightarrow 307\frac{9}{13}\%$
 - Convert $\frac{39}{8}$ in percentage
 $\frac{39}{8} \Rightarrow 5 - \frac{1}{8}$ OR $\frac{39}{8} \Rightarrow 4 + \frac{7}{8}$
 $\Rightarrow 500\% - 12\frac{1}{2}\%$ $\Rightarrow 400\% + 87\frac{1}{2}\%$
 $\Rightarrow 487\frac{1}{2}\%$ $\Rightarrow 487\frac{1}{2}\%$
 - Convert $\frac{23}{12}$ in percentage
 $\frac{23}{12} \Rightarrow 2 - \frac{1}{12}$
 $\Rightarrow 200\% - 8\frac{1}{3}\%$
 $\Rightarrow 191\frac{2}{3}\%$
 - Convert $\frac{65}{10}$ in percentage
 $\frac{65}{10} = 6 + \frac{5}{10}$
 $= 600\% + 50\%$
 $= 650\%$
 - Convert $\frac{78}{11}$ in percentage
 $\frac{78}{11} \Rightarrow 7 + \frac{1}{11}$
 $\Rightarrow 700\% + 9\frac{1}{11}\%$
 $\Rightarrow 709\frac{1}{11}\%$
 - Convert $\frac{87}{17}$ in percentage
 $\frac{87}{17} \Rightarrow 5 + \frac{2}{17}$ $\frac{1}{17} = 5\frac{15}{17}\%$
 $\Rightarrow 500\% + 11\frac{13}{17}\%$ $\frac{2}{17} = 11\frac{13}{17}\%$
 $\Rightarrow 511\frac{13}{17}\%$
 - Convert $\frac{96}{19}$ in percentage
 $\frac{96}{19} = 5 + \frac{1}{19}$
 $= 500\% + 5\frac{5}{19}\%$
 $= 505\frac{5}{19}\%$
 - Convert $\frac{107}{15}$ in percentage
 $\frac{107}{15} = 7 + \frac{2}{15}$
 $= 700\% + 13\frac{1}{3}\%$
 $= 713\frac{1}{3}\%$
 - Convert $\frac{203}{20}$ in percentage
 $\frac{203}{20} = 10 + \frac{3}{20}$
 $= 1000\% + 15\%$
 $= 1015\%$
 - $\frac{64}{25}$ Converted to percentage is.
(a) 25.6 (b) 256
(c) 0.256 (d) 2.56
 $\frac{64}{25} = 2 + \frac{14}{25}$
 $= 200\% + 56\%$
 $= 256$
 - $\frac{9}{40}$ Converted to percentage is.
(a) 2.5 (b) 2
(c) 22 (d) 22.5
 $\frac{9}{40} = 9 \times \frac{1}{40}$ $\frac{1}{40} = 2\frac{1}{2}\%$
 $= 9 \times 2\frac{1}{2}\%$
 $= 18\frac{9}{2}\%$
 $= 22\frac{1}{2}\%$

Calculate x% of y

- $$1. \quad \text{30% of } 420 = \frac{3}{10} \times 420 \\ = 3 \times 42 \\ = 126$$

$$250 \text{ OT } 46\% \quad \underline{\text{OR}} \quad 250\% \text{ OT } 46$$

$$\Rightarrow 250 \times \frac{23}{50} \quad \Rightarrow \frac{5}{2} \times 46$$

- 2.** **40% of 385**

$$\begin{aligned} \text{40% of } 385 &= b\% \text{ of } q \\ \Rightarrow \frac{2}{5} \times 385 &= \frac{q}{100} \times b \\ \Rightarrow 2 \times 77 &= \frac{qb}{100} \\ \Rightarrow 154 &= \frac{qb}{100} \end{aligned}$$

CONCEPT :-

3. 38% of 450

$$\begin{array}{l} \text{38% OF } 450 \text{ OR } 38 \text{ OF } 450 \\ \Rightarrow \frac{19}{50} \times 450 \qquad \Rightarrow 38 \times \frac{9}{2} \\ \Rightarrow 19 \times 9 \qquad \Rightarrow 19 \times 9 \\ \Rightarrow 171 \qquad \Rightarrow 171 \end{array}$$

$$\begin{array}{l} A \times B = M \\ 5A \times \frac{B}{5} = M \\ \frac{A}{13} \times 13B = M \end{array} \quad \# \quad \begin{array}{l} 10 \times 28 = 280 \\ 2 \times 10 \times \frac{28}{2} = 280 \\ \frac{10}{2} \times 2 \times 28 = 280 \end{array}$$

4. **75% of 75 of 400**

$$\begin{array}{ll}
 75\% \text{ of } 75 \text{ of } 400 \text{ OR } 75 \text{ of } 75 \text{ of } 400\% & \\
 \Rightarrow \frac{3}{4} \times 75 \times 400 & \Rightarrow 75 \times 75 \times 4 \\
 \Rightarrow 225 \times 100 & \Rightarrow 75 \times 300 \\
 \Rightarrow 22500 & \Rightarrow 22500
 \end{array}$$

$$\begin{aligned} & 45\% \text{ of } 1180 + 90\% \text{ of } 350 \\ & 45\% \text{ of } 1180 + 90\% \text{ of } 350 \\ \Rightarrow & \frac{9}{20} \times 1180 + \frac{9}{10} \times 350 \\ \Rightarrow & 531 + 315 \end{aligned}$$

$$\begin{aligned} \text{इकाई अंक } 5 \text{ हो तो} \\ 75^2 = (7 \times 8), (5)^2 \\ = 5625 \\ 25^2 = (2 \times 3), (5)^2 \\ = 625 \end{aligned}$$

Calculation

$$\begin{aligned}
 & \underline{\text{OR}} \quad 45\% \text{ of } 1180 + \frac{90\%}{2} \text{ of } 350 \times 2 \\
 & \Rightarrow 45\% \text{ of } 1180 + 45\% \text{ of } 700 \\
 & \Rightarrow 45\% \text{ of } [1180 + 700] \\
 & \Rightarrow \frac{9}{20} \times 1880 \\
 & \Rightarrow 846
 \end{aligned}$$

$$\begin{aligned} & 250 \times 28\% \times 60\% \\ \Rightarrow & 250\% \times 28 \times 60\% \\ \Rightarrow & \frac{5}{2} \times 28 \times \frac{3}{5} \\ \Rightarrow & 14 \times 3 \\ \therefore & 42 \end{aligned}$$

$$\begin{aligned} & 500 \times 90 \cdot 1 \times 18 \cdot 1 \\ \Rightarrow & 500 \cdot 1 \times 90 \cdot 1 \times 18 \\ \Rightarrow & 5 \times \frac{9}{10} \times 18 \\ \Rightarrow & 9 \times 9 \\ \Rightarrow & 81 \end{aligned}$$

17. If 10% of 24% of x is 240, then x = ?
(a) 1000 (b) 10000
(c) 100 (d) 100000

$$x \times 10\% \text{ of } 240 = 240$$

$$x \times \frac{1}{10} \times \frac{6}{25} = 240$$

$$x = 10,000$$

$$\Rightarrow \frac{110}{10} \times \frac{11}{10} \times \frac{1}{10}$$

Find the sum of All digit of below expression
निम्न संख्या के सभी अंको का योग जात छे।

$$(1111\dots\dots 100\text{ शेर})^2 = 100^2 \\ \equiv 10000$$

$$\begin{aligned} |1|^2 &= 1 = 1^2 \\ |12|^2 &= |21| = 2^2 \\ |12321|^2 &= |234321| = 3^2 \\ |1234321|^2 &= |23454321| = 4^2 \\ |123454321|^2 &= |2345654321| = 5^2 \end{aligned}$$

- 19.** What is 20% of 40% of 30% of 75% of 3400?

3400 के 75% के 30% के 40% का 20% क्या है?

$$\begin{aligned} & \Rightarrow 3400 \times 75\% \times 30\% \times 40\% \times 20\% \\ & \Rightarrow 17 \times 100 \times \frac{3}{4} \times \frac{3}{10} \times \frac{2}{5} \times \frac{1}{5} \\ & \Rightarrow \frac{68 \times 9}{10} \Rightarrow \frac{612}{10} \Rightarrow 61.2 \end{aligned}$$

- What is 25% of 50% of 75% of 80% of 4520?**

4520 के 80% के 75% के 50% के 25% का मान क्या है?

4520 x 804 x 764 x 504 x 264

$$\Rightarrow 4520 \times \frac{4}{5} \times \frac{3}{4} \times \frac{1}{2} \times \frac{1}{4}$$

⇒ 339

- 21.** What is 30% of 40% of 150% of 200% of 360?

360 के 200% के 150% के 40% के 30% का

- | | | |
|----|---|--|
| 6. | 32 is what percent of 80 ? /32, 80 का 10.
कितना प्रतिशत है?
$32 : 80 = 2 : 5$
$= \frac{2}{5} \times 100\%$.
$= 40\%$. | What percent of a day is 6 hours ? /6
घंटे एक दिन का कितना प्रतिशत होता है?
(a) 30% (b) 40%
(c) 25% (d) 45%
$6 : 24$
$1 : 4$ |
| 7. | What percent of 7.2 kg is 18 gm. /7.2
किग्रा का कितना प्रतिशत 18 ग्राम है?
$18 \text{ gm} \quad 7.2 \text{ kg}$
$18 \text{ gm} : 7200$
$1 : 400$
$\Rightarrow \frac{1}{400} \times 100\%$.
$\Rightarrow \frac{1}{4} = 0.25\%$. | $\Rightarrow \frac{1}{4} \times 100\%$.
$\Rightarrow 25\%$. |
| 8. | 1 minute 48 second in the percentage
of 1 hour is represented by.
1 मिनट 48 सेकंड को 1 घंटे के प्रतिशत में
किस प्रकार दर्शाया जाता है?
(a) 3% (b) 5%
(c) 4% (d) 2%
$108 : 3600$
$3 : 100$
$\Rightarrow \frac{3}{100} \times 100\%$.
$\Rightarrow 3\%$. | What percentage is 15 minutes of $1\frac{1}{2}$
days ?
15 मिनट $1\frac{1}{2}$ दिन का कितना प्रतिशत है?
(a) 10% (b) $\frac{5}{6}\%$
(c) $\frac{25}{36}\%$ (d) $41\frac{2}{3}\%$
$15 : 36 \times 60$
$1 : 144$
$\Rightarrow \frac{1}{144} \times 100\%$.
$\Rightarrow \frac{25}{36}\%$. |
| 9. | What percentage of 1 hour is 1 min 12 sec ?
1 मिनट 12 सेकंड 1 घंटे का कितना प्रतिशत है?
(a) 2% (b) 12%
(c) 11% (d) 1.2%
$72 : 3600$
$2 : 100$
$\Rightarrow \frac{2}{100} \times 100\%$.
$\Rightarrow 2\%$. | What percent of Rs. 10 is Rs. 1.25 ? /10
रुपये का कितना प्रतिशत 1.25 रुपये है?
(a) 66% (b) 23%
(c) 12.5% (d) 33%
$125 : 10 \times 100$
$1 : 8$
$\Rightarrow \frac{1}{8} \times 100\%$.
$\Rightarrow 12.5\%$. |

