

Percentage

Percent (Per hundred)
↓
for every hundred.

70%

70 out per hundred.

or, 70 for every hundred.

or, 70 out of hundred.

$$70\% = \frac{70}{100} = \frac{70 \div 100}{100 \div 100}$$

$$70\% \text{ of } 50 = 7$$

$\left[\frac{1}{2} \right]$ as percent.

$$\frac{1}{2} \times 50 = \underline{\quad}$$

$$\frac{5}{10} \begin{array}{l} \times 10 \\ \times 10 \end{array} = \frac{\boxed{50}}{100}$$

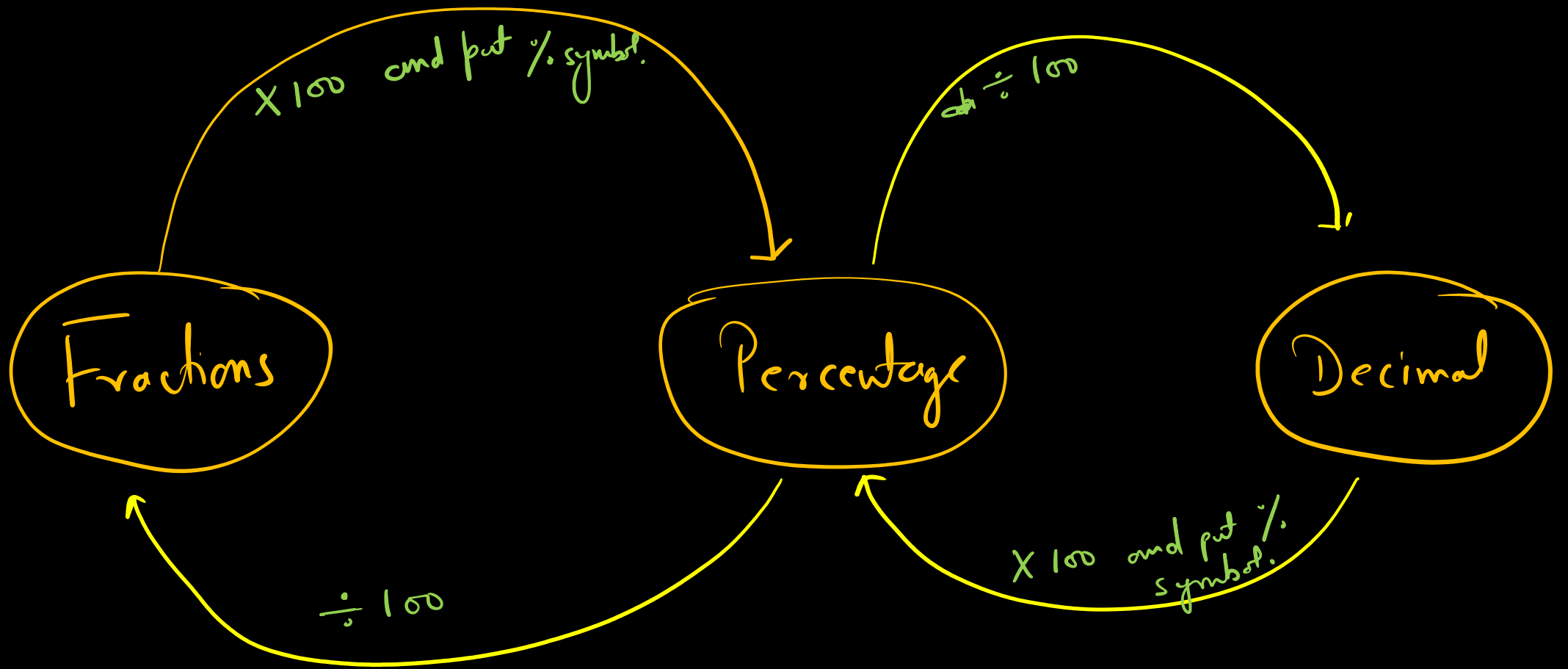
Percent \Rightarrow out of hundred.

$$\frac{3}{5} \text{ into } \%$$

$$\begin{array}{r} 0.6 \\ 5 \overline{) 30} \\ \underline{-30} \\ 0 \end{array}$$

$$\frac{3}{5} = \boxed{\frac{0.6}{1} \times 100} \%$$

$$= 60 \%$$



$$\frac{3}{4} \times \frac{100}{100} \% = 75\%$$

$$\frac{1}{2} \times 100 \% = 50\%$$

$$\frac{1}{2} \times \cancel{100}^{50} = 50\%$$

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

by $\div 100$

$$50\% = \frac{\cancel{50}}{\cancel{100}} = \frac{1}{2} = \frac{0.5}{1}$$

- Kabir has 50 chocolates with him, he ate 60% of those in a week. Find the no. of chocolates left with him.

$$\begin{aligned}\text{No. of chocolates left left} &= \boxed{40\%} \text{ of } 50 \\ &= \frac{40}{100} \times 50 \\ &= \underline{\underline{20}}.\end{aligned}$$

Q. Pooja distributed $\frac{3}{4}$ th of her birthday cake to her friends. Find the percentage of cake distributed to her friends.

Express following into percent.

(i) 0.375

(ii) 0.005

(iii) 2.45

Q. Find a number whose 4% is 72.

$$4\% \text{ of } \boxed{x} = 72$$

$$\frac{4}{\textcircled{100}} \times x = 72$$

$$x = \frac{72}{4} \times 100 = \underline{\underline{1800}}$$

Q. What percent of 25 kg is 3.5 kg?
marks mark

10 marks out of 50

$$\text{Percentage} : \left(\frac{3.5 \text{ kg}}{25 \text{ kg}} \times 100 \right) \%$$

$$\left(\frac{10}{\cancel{50}} \times \frac{2}{\cancel{100}} \right) \%$$

20 %

Method: Let a and b are two numbers.
Then "what percent of a is b"
 $\left(\frac{b}{a} \times 100 \right) \%$

15

$$\boxed{1568} \times 4$$

$$4 \times \underbrace{(1000 + 500 + 60 + 8)}_{*} = 4$$

$$4000 + 2000 + 240 + 32$$

└──────────┘
6000

$$\begin{array}{r} 6240 \\ 32 \end{array}$$

$$\boxed{6272}$$

$$\begin{array}{r} 2 \quad 3 \\ \downarrow \quad \nearrow \\ 1 \quad 5 \\ \hline 2 \quad 4 \quad 5 \\ \quad \quad \downarrow \\ \quad \quad 1 \end{array}$$

What percent of 750 metres is 125 metres?

$$\left(\frac{125}{750} \times \frac{100}{1} \right) \%$$

$$\frac{1250}{75} \%$$

$$\underline{\underline{16.66\%}}$$

$$\underline{\underline{16.67\%}}$$

$$\begin{array}{r} \cancel{50} \\ \cancel{250} \\ \hline \cancel{1250} \\ \hline \cancel{75} \\ +5 \quad 3 \end{array}$$

$$\boxed{3 \overline{)50} (}$$

Express 75 cents as percent of \$5.

75 cents as percent of 500 cents.

$$\left(\frac{75}{500} \times 100 \right) \%$$

$$\underline{\underline{15\%}}$$

Express 18 hours as a percent of 3 days.

$$3 \text{ days} = \underline{\underline{72 \text{ hours}}}$$

$$\left[\frac{\overset{6}{18}}{\cancel{72}} \times 100 \right]$$

$$\frac{1 \times 100}{4} = \frac{100}{\cancel{400}} = 25\%$$

Find 10% more than 90 kg.

Find 20% less than 70 kg.

140.

