

Percentages

Knowledge Organiser

Key Vocabulary Equivalent Fractions, Decimals and Percentages Order Fractions, Decimals and Percentages

per cent (%) = 'out of 100'

percentage

discount

equivalent fraction

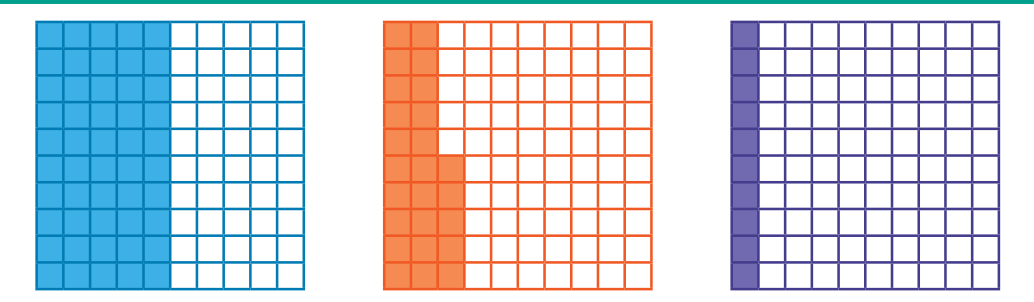
equivalent decimal

convert

compare

order

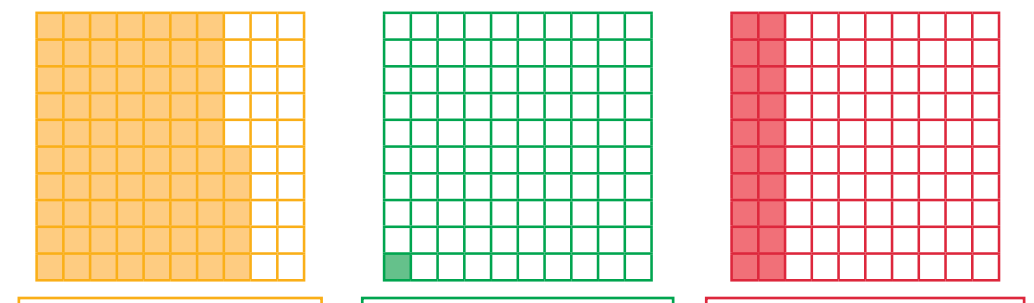
the whole



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

$$\frac{25}{100} = \frac{1}{4} = 0.25 = 25\%$$

$$\frac{10}{100} = \frac{1}{10} = 0.1 = 10\%$$

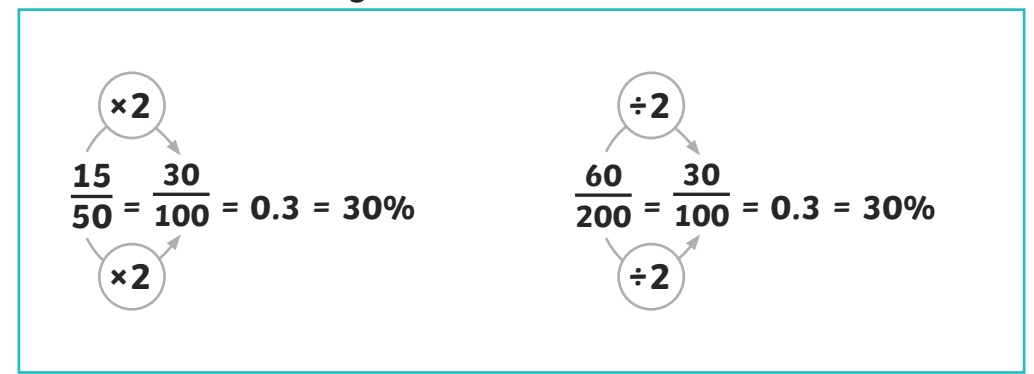


$$\frac{75}{100} = \frac{3}{4} = 0.75 = 75\%$$

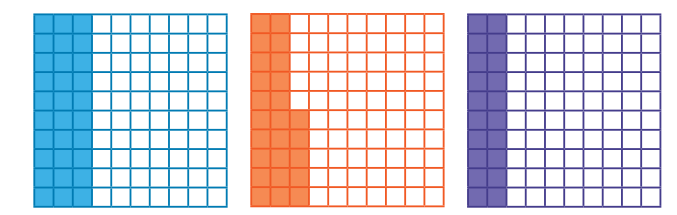
$$\frac{1}{100} = 0.01 = 1\%$$

$$\frac{20}{100} = \frac{2}{10} = 0.2 = 20\%$$

Fractions to Percentages



$$\frac{3}{10} > 25\% > 0.2$$

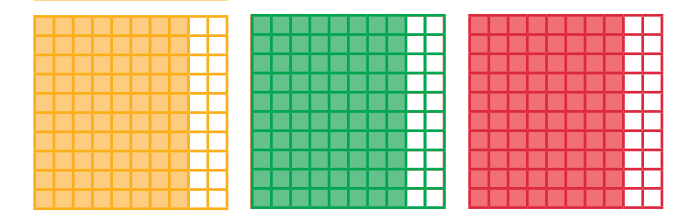


$$\frac{30}{100} = 30\%$$

$$\frac{25}{100} = 25\%$$

$$\frac{20}{100} = 20\%$$

$$80\% = 0.8 = \frac{4}{5}$$



$$\frac{80}{100} = 80\%$$

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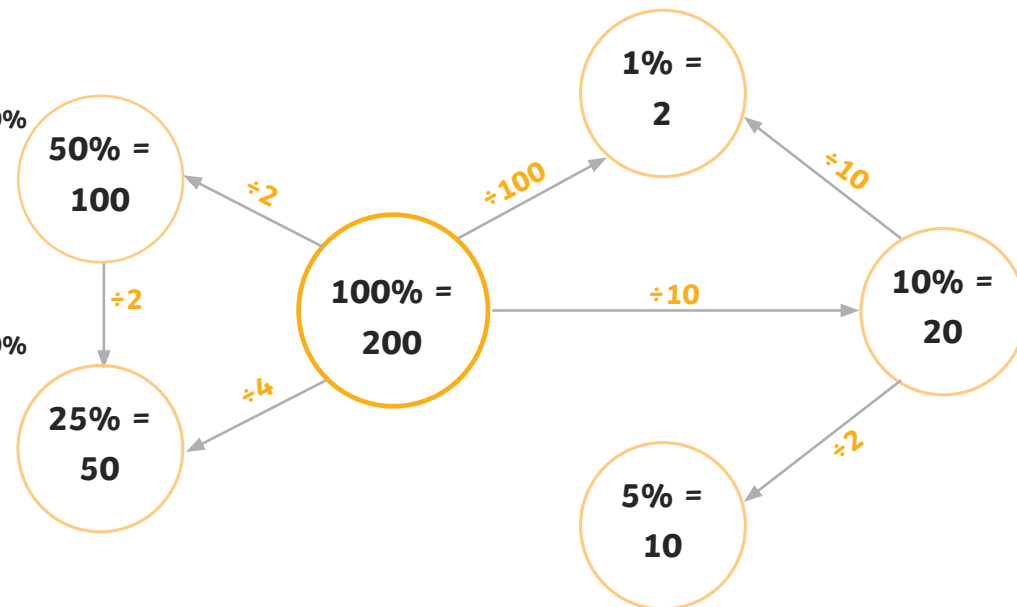
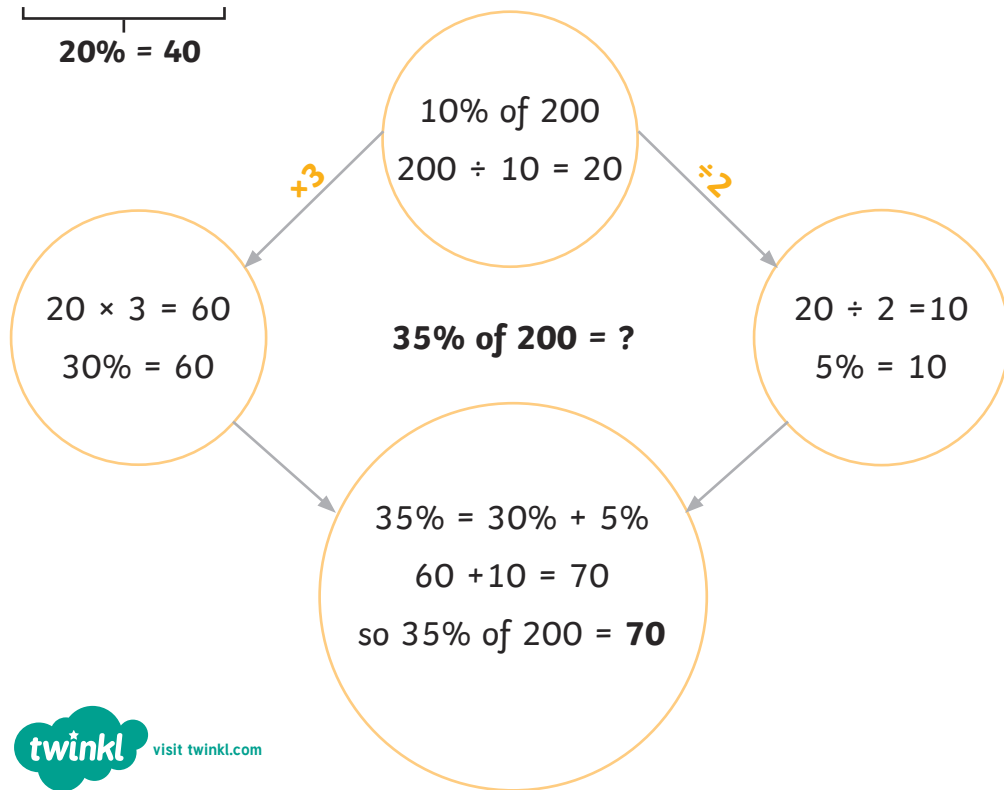
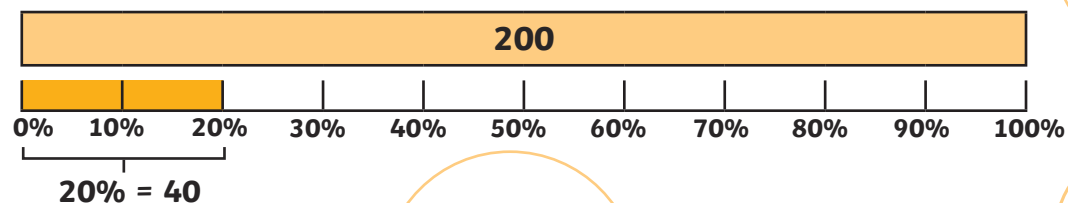
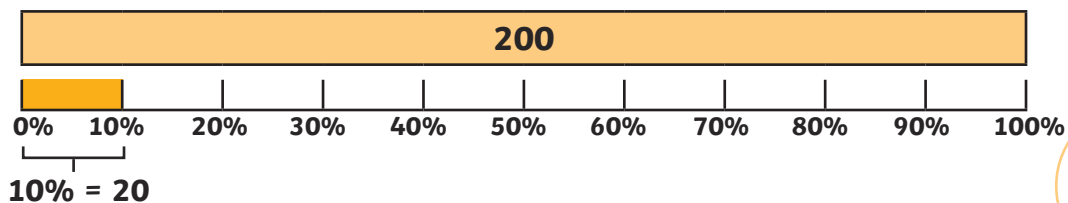
Finding a Percentage of an Amount

$50\% = \frac{1}{2}$ so we can divide by 2

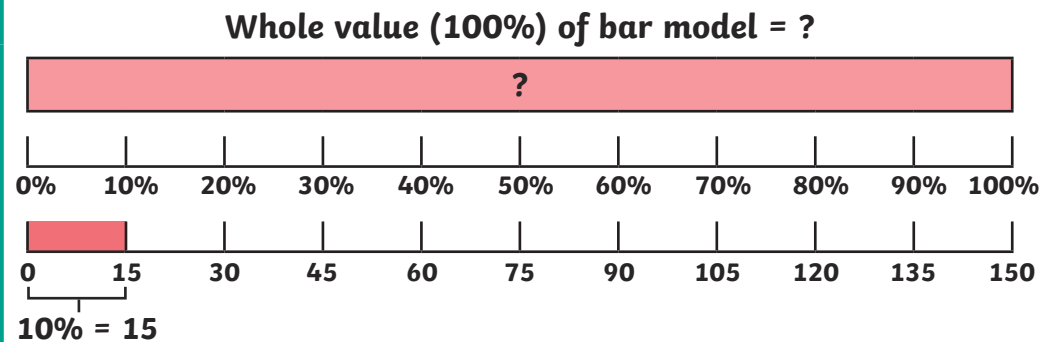
$10\% = \frac{1}{10}$ so we can divide by 10

$25\% = \frac{1}{4}$ so we can divide by 4

$1\% = \frac{1}{100}$ so we can divide by 100



Percentages – Missing Values



We know $10\% = 15$ $10\% \times 10 = 100\%$ (the whole) so $15 \times 10 = 150$