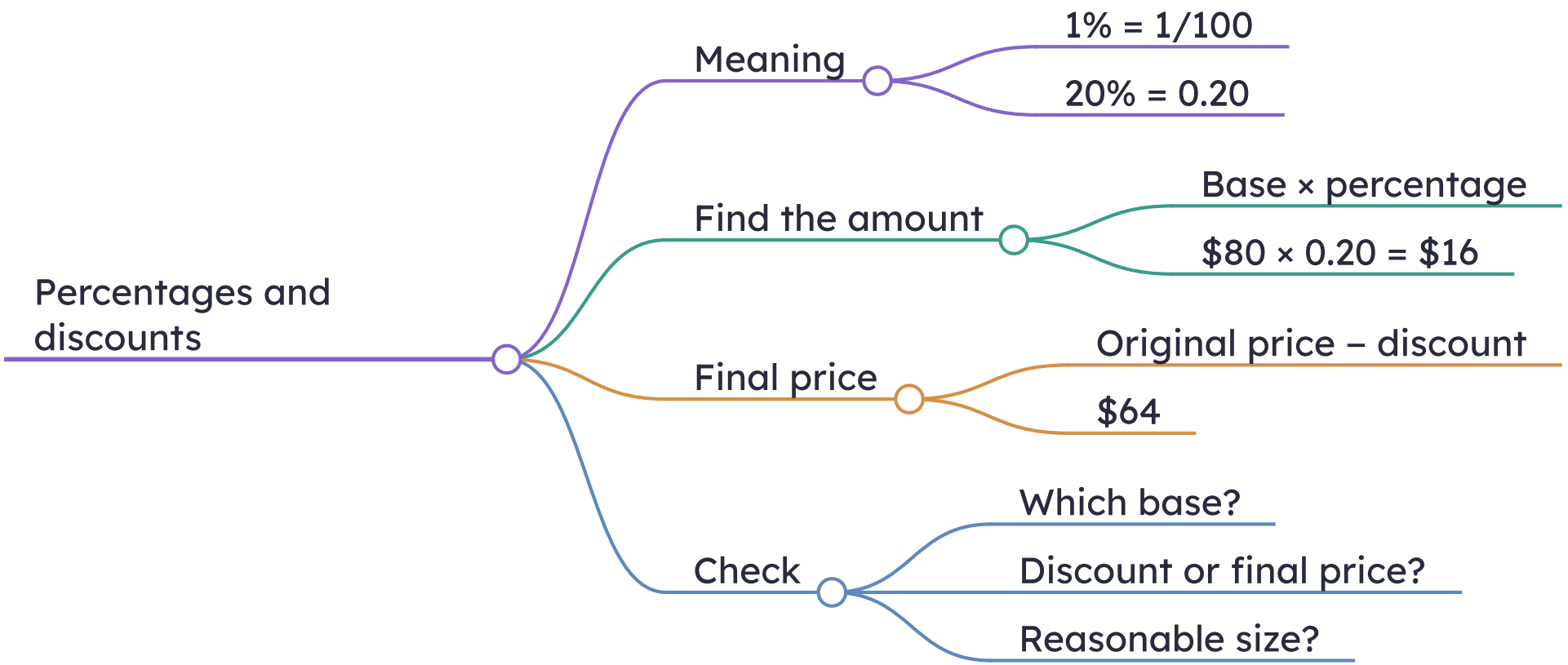
Percentages and discounts

Separate the percentage amount from the final price.



Read one branch at a time. Then cover the details and explain them in your own words.

Understand the topic

Percent means per hundred. Twenty percent of $80 is 0.20 × 80 = $16. If that is a discount, the final price is $64. A percentage always refers to a base amount. Successive changes must use the correct base at each stage.

How the map is organized

The branches distinguish meaning, the percentage amount, the final value, and checks.

> **Watch out for this**
> A 20% increase followed by a 20% decrease does not return to the starting value because the base changes.

Try it yourself

Find a 25% discount on a $60 book using multiplication and division into quarters. State both the discount and the amount paid.

Two questions to answer

What is 25% of $60?

A quarter of $60 is $15.

What is the price after that discount?

Subtract the $15 discount from $60.

Sources

openstax.org
https://openstax.org/books/prealgebra-2e/pages/6-1-understand-percent

Original practice material compiled by Studera.ai. Explore at studera.ai/en/resources/mind-map-examples.