



## Proportional Relationships in Equations

### Today's Standard

7.RP.A2c - Represent proportional relationships by equations. For example, if total cost  $t$  is proportional to the number  $n$  of items purchased at a constant price  $p$ , the relationship between the total cost and the number of items can be expressed as  $t = pn$ .

Cues	Notes
Proportional relationships	Proportional relationships involve a constant ratio between two quantities.
Equations	These relationships can be represented by equations of the form $t = pn$ .
Constant factor	A constant factor means multiplying by the same number each time.
Real-world examples	Examples include calculating total cost, determining speed, and converting currencies.
Common misconceptions	Misconceptions include thinking proportional relationships involve addition or confusing them with linear relationships with a y-intercept.

### Summary

Proportional relationships are represented by equations like  $t = pn$ , involving a constant factor. Understanding this is crucial for solving real-world problems and avoiding common misconceptions.