## Inversely proportional instructions

## definition:

Inversely Proportional means:
when one value increases at the same rate that the other decreases $\uparrow \downarrow$
or when one value decreases at the same rate that the other increases $\downarrow \uparrow$

## example:

speed and drive time:
As speed goes down, drive time goes up.
As speed goes up, drive time goes down.

## calculate:

A car is going at at speed 54 mph . It takes 20 minutes to the city.
How long does it take the same car if it is going at a speed of 60 mph ?

1. step: proportion

* 54 mph - 20 minutes
: 60 mph - x minutes

2. step: which proportion?
$\uparrow$ more speed $\downarrow$ less minutes $=$ inverse proportion
3. step: formula
$x=20$ * 54
60
$x=18$ minutes
4. step: answer

It takes the car 18 minutes to the city.

