Rearranging Velocity Equation:

On steps 3, 4, and 5, you'll always start with the same equation:

$$V = \frac{d}{t}$$

If you are given velocity and time, find displacement like this:

③ $v = \frac{d}{t}$ $30\ \frac{m}{s} = \frac{d}{5s}$

④ $5 \cdot 30 = \frac{d}{5} \cdot 5$

$150 = d$

$d = 150$ m North

If you are given velocity and displacement, here is how you find time:

③ $5\ m/s = \frac{15\ m}{t}$

④ $t \cdot 5 = \frac{15}{t} \cdot t$

$\frac{5 \cdot t}{5} = \frac{15}{5}$

$t = 3$

$\boxed{t = 3\ s}$

variable	unit
velocity (v)	meters per second ($\frac{m}{s}$)
displacement (d)	meters (m)
time (t)	seconds (s)