

OLYMPIAD · EVERYDAY MATHEMATICS · OLYMPIAD PREPARATION · FORMULA BANK

Chapter 15: Speed, Distance and Time

Every formula and result of the chapter on one sheet

1	Speed	$\frac{\text{distance}}{\text{time}}$
2	km/h to m/s	multiply by $\frac{5}{18}$
3	m/s to km/h	multiply by $\frac{18}{5}$
4	Average speed	$\frac{\text{total distance}}{\text{total time}}$
5	Same distance at speeds x and y	$\frac{2xy}{x+y}$
6	Opposite directions	relative speed = $x + y$
7	Same direction	relative speed = $x - y$
8	Train crossing a pole	distance = L
9	Train crossing a platform	distance = $L + P$
10	Downstream and upstream	$u + v$ and $u - v$