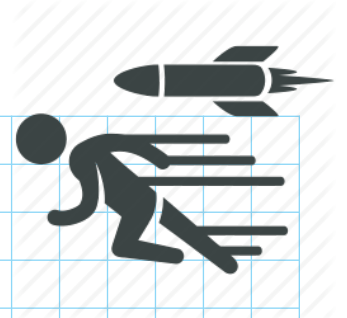


VELOCITY



$V=d/t$; rearrange as needed, $d=Vt$, $t=d/V$

Perform the following calculations. Show the work as demonstrated in class.
Use conversion factors from the time and length worksheets.

1. 30 ft in 6 s; Calculate velocity in fps

2. 200 m in 600 s; Calculate velocity in m/s

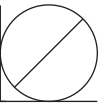
3. 400 ft in 60 s; Calculate velocity in ft/min

4. 1200 m in 1 hr; Calculate velocity in m/min

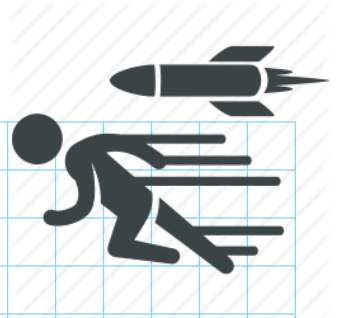
5. 176 ft in 2 s; Calculate velocity in mph

6. 30 REV in 3 MIN; Calculate velocity in RPM

7. 345 DEG in 0.75 MIN, Calculate velocity in RPM (360 DEG = 1 REV)



VELOCITY



8. 16 RAD in 4 s; Calculate velocity in RAD/s

9. 30 RAD in 5 s; Calculate velocity in RPM ($2 \text{ PI RAD} = 6.283 \text{ RAD} = 1 \text{ REV} = 360 \text{ DEG}$)

10. 60 MPH for 1 hr; Calculate distance in miles (mi)

11. 50 MPH for 2 hr; Calculate distance in ft

12. 300 ft at 10 FPS(ft/s); Calculate time in s

13. 700 m at 2 FPS; Calculate time in min

14. 600 RPM; Calculate velocity in rad/s