

- ① Review velocity problems
- ② Safety glasses
- ③ Derby races

In general, when solving a "5 steps" problem:

- STEP 4 is the answer/
Put units (including direction)

ex. " $v = 22.7 \text{ m/s north}$ "

- Using algebra on steps 4 & 5

$$t \times 2.4 \text{ m/s}^2 = \frac{2 \text{ m}}{t} \times t \quad t = \underline{\hspace{2cm}}$$

$$\frac{2.4 \text{ m/s}^2 \times t}{2.4} = \frac{2 \text{ m}}{2.4}$$

$$t = \frac{1}{1.2} \text{ s}$$

Step 5 format:

~~$10 = \frac{5}{2} \checkmark$ NO~~

④ $v = 10 \text{ m/s}^2$

⑤ check:

$$2s \times 10 \text{ m/s}^2 = \frac{d}{2s} \times 2s$$

$$20 \text{ m} = d$$

Units:

velocity: m/s w/direction!
displacement: m w/direction!
time: s

Specific to velocity problems:

Finding d or v , include direction (make it up if it's not in the problem)