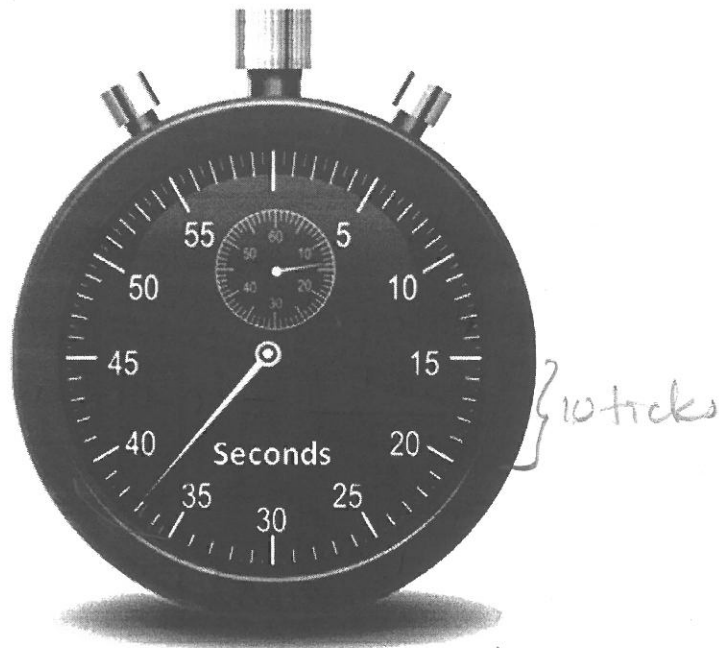


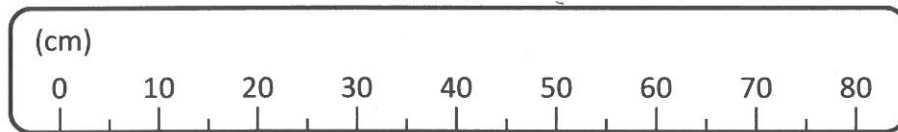
b) a stopwatch:



$$\textcircled{1} \text{ Precision} = \frac{5 \text{ seconds}}{10 \text{ "ticks"}} = 0.5 \text{ seconds}$$

$$\textcircled{2} \text{ Uncertainty} = \frac{0.5 \text{ seconds}}{2} \Rightarrow \boxed{0.25 \text{ seconds}}$$

c) A ruler:



$$\textcircled{1} \text{ Precision} = \frac{10 \text{ cm}}{2 \text{ "ticks"}} = \boxed{5 \text{ cm}}$$

$$\textcircled{2} \text{ Uncertainty} = \frac{\text{Precision}}{2}$$

$$= \frac{5 \text{ cm}}{2}$$

$$\underline{\text{Uncertainty}} = \boxed{2.5 \text{ cm}}$$