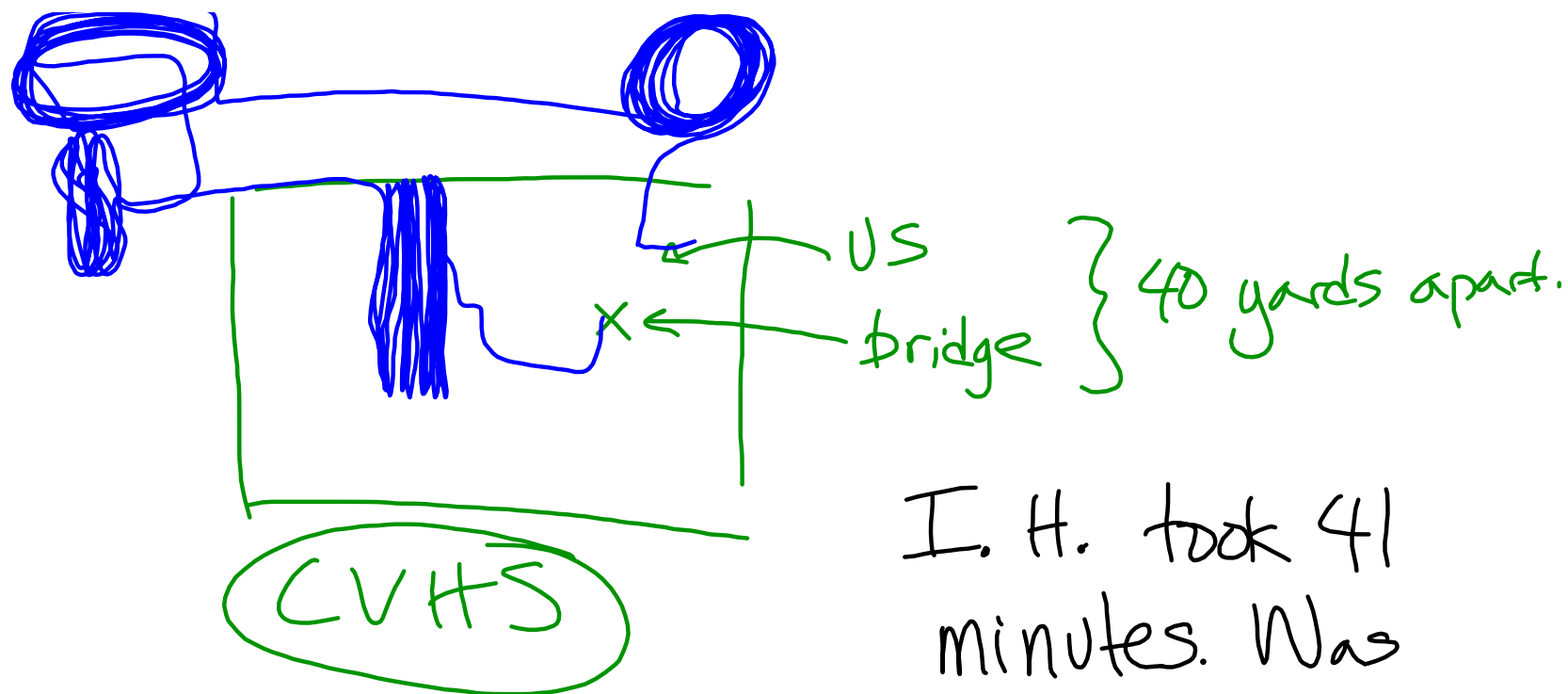


# MOTION - SPEED

- Speed is one way of describing how fast an object is moving
- Speed measures how far an object is travelling in a certain amount of time
- Speed is concerned with the total distance of an object's path



I. H. took 41  
minutes. Was  
that fast?

(He went 2.6 miles)

speed = total distance  $\div$  time

$$s = d \div t$$

$\frac{\text{unit of length}}{\text{unit of time}} S = \frac{d}{t}$

$\swarrow$  units of length  
(meters, feet, yards, miles...)

$\nwarrow$  units of time  
(seconds, minutes, hours)

① Optimus Prime goes 12 blocks in 17 seconds.  
What is his speed?  $d$   $t$

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

$$S = \frac{12 \text{ blocks}}{17 \text{ seconds}}$$

$$S = 0.71 \frac{\text{blocks}}{\text{second}}$$