

# Predicting Human Performance using Fitts' Law

## Submission Format

### Group members:

**Note:** Enter in the format, "Last name, first name (matriculation no.); Last name, first name (matriculation no.); ..."

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#### 1. a.

Distance from **S** to **F**,  $D_{SF}$ : 25 cm

Target Width for **S** to **F**,  $W_{SF}$ : 5 cm

Distance from **F** to **C**,  $D_{FC}$ : 32 cm

Target Width for **F** to **C**,  $W_{FC}$ : 8 cm

Movement Time for **S** to **F**,  $MT_{SF}$ : 258.49625007211563 ms

$$( = 0 + 100 * \log_2(25.0/5.0 + 1) = 258.49625007211563 \text{ ms} )$$

Movement Time for **F** to **C**,  $MT_{FC}$ : 232.19280948873623 ms

$$( = 0 + 100 * \log_2(32.0/8.0 + 1) = 232.19280948873623 \text{ ms} )$$

Movement Time for **S** to **C**,  $MT_{SC}$ : 490.6890595608519 ms

$$( = 258.49625007211563 + 232.19280948873623 = 490.6890595608519 \text{ ms} )$$

**b.** Using fingers (b) instead of mouse (a) causes the movement time to

☐ Increase

☒ Decrease

**2.**

Sketch of your redesign:

How your redesign minimizes the selection time:

**3.**

Argument #1:

Argument #2: