



PHYSLETS ANSWER SHEET

FS1A1

Forces / Set 1 / Animation 1

Name _____ Class _____

<Show all work on calculations. Include proper units. Explanations require complete sentences.>

- 1) Find the start position of each block shown. (gray, green, yellow, blue)

- 2) Find the position of the gray and green blocks after 2.52 seconds.

- 3) Calculate the acceleration of each block during the first 2.52 seconds.

- 4) Calculate the acceleration of each block during the first 3.6 seconds to determine if the acceleration is constant.

- 5) Calculate the mass of each block.

- 6) Calculate the net force applied to each block.

- 7) Compare the acceleration of the gray/green blocks and the acceleration of the yellow/blue blocks.

- 8) Compare the force acting on the green box, to the force acting on the gray box.