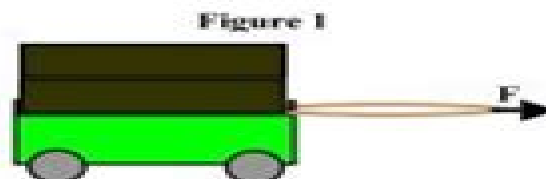


### Cart, Bricks and Bands

A group of physics students conducted an experiment to determine the acceleration-mass-force relationship.

Large rubber bands were connected to carts and stretched to a length of 20 cm. Students then pulled the carts along, being careful to keep the rubber bands stretched to 20 cm during the trial. **Figure 1** includes a diagram of the cart and rubber band. The force was changed by adding additional rubber bands. Doubling

the number of rubber bands has the effect of doubling the force. Bricks were upon the carts in order to vary the mass of the carts. Since the bricks had the same mass as the cart, adding one brick to the cart would double the mass of the *object*. Adding two bricks to the cart would triple the mass of the *object*. To determine the acceleration of the carts, an apparatus known as a *ticker tape timer* was used. A long piece of narrow paper *tape* was attached to the carts. The paper tape was pulled through the timer. As the paper tape passed through the timer, ticks (small dots) were placed on the tape every 0.10 seconds. Distance measurements between several consecutive ticks were used to determine the acceleration. **Figure 2** shows the appearance of the ticks on the paper tape.



**Figure 2**



**Table 1** and **Table 2** show the results. Use the data to answer the next several questions.

| <b>Table 1: Varying Force</b><br>(constant mass: cart with 1 brick) |                   |                       |
|---------------------------------------------------------------------|-------------------|-----------------------|
| <b>Trial</b>                                                        | <b># of Bands</b> | <b>Accel'n</b>        |
| <b>1</b>                                                            | 1                 | 0.24 m/s <sup>2</sup> |
| <b>2</b>                                                            | 2                 | 0.51 m/s <sup>2</sup> |
| <b>3</b>                                                            | 3                 | 0.73 m/s <sup>2</sup> |
| <b>4</b>                                                            | 4                 | 1.00 m/s <sup>2</sup> |

| <b>Table 2: Varying Mass</b><br>(constant force: 2 bands, 20 cm stretch) |                    |                       |
|--------------------------------------------------------------------------|--------------------|-----------------------|
| <b>Trial</b>                                                             | <b>Mass</b>        | <b>Accel'n</b>        |
| <b>5</b>                                                                 | cart (no bricks)   | 0.99 m/s <sup>2</sup> |
| <b>6</b>                                                                 | cart with 1 brick  | 0.50 m/s <sup>2</sup> |
| <b>7</b>                                                                 | cart with 2 bricks | 0.32 m/s <sup>2</sup> |
| <b>8</b>                                                                 | cart with 3 bricks | 0.25 m/s <sup>2</sup> |

# Cart Bricks And Bands Figure 1 F Figure 1

**S Marginson**



## **Cart Bricks And Bands Figure 1 F Figure 1:**

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