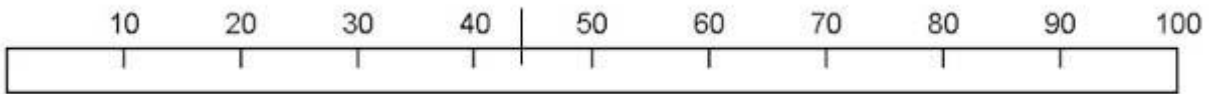
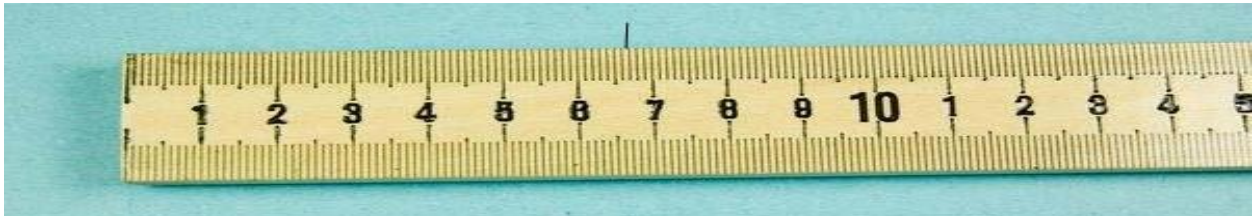


Name \_\_\_\_\_

1. Here is an image of a meter stick with a mark. What is the reading of the mark to the proper number of significant figures?



2. Here is an image of a segment of another meter stick with a mark. What is the reading of the mark to the proper number of significant figures?



3. How many significant figures are in each of the following measurements?

- (A) .0034 cm    (B) 0.000456 cm    (C) 45000 m    (D) 34.567 kg    (E) 60,000 years    (F) 34.000 s  
(G) 405.000 kg    (H)  $3.4 \times 10^5$  seconds    (I)  $4.500 \times 10^{-4}$  cm    (J)  $3.00 \times 10^8$  m/s

4. A small cart travels 21.2 cm in 8.5 seconds. The speed is calculated using the relationship  $v=d/t$ . Find the speed to the proper number of significant figures.

5. If the length, width, and depth of a block of metal are found to be 3.4cm, 4.80 cm, and 25.1 cm respectively, calculate the volume of the block of metal. Give the proper number of significant figures and the proper label.

6. A school bus pulls away from a bus stop at 2.2 m/s. Its speed increases by 5.225 m/s over the next few seconds. What is its speed after the increase?

7. A poster is 0.95 m high and 1.0 m long. Calculate the perimeter of the poster to the proper number of significant figures.

8. What is the area of the poster in question 7?