

Here is a line divided into **inches**.

How many inches are there?  $\left\{ \begin{array}{l} 2 \\ 3 \end{array} \right.$

So we can say that this line is 3 inches long.

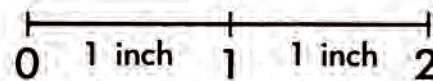


3



This line is \_\_\_\_\_ inches long.

4



This line is \_\_\_\_\_ inches long.

2

Look at the space between the left end of the line, marked 0, and the end of the first inch, marked 1.

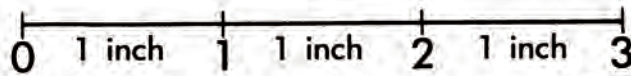
yes

Is that space 1 inch long?  $\left\{ \begin{array}{l} \text{yes} \\ \text{no} \end{array} \right.$

Now look at the space between the 0 end of the line and the end of the second inch, marked 2.

yes

Is that space 2 inches long?  $\left\{ \begin{array}{l} \text{yes} \\ \text{no} \end{array} \right.$



3

This line is \_\_\_\_\_ inches long.



Look at the number 1. Does the

1 mean that the space from the 0 end of the line to the number 1 is 1 inch? yes  
no

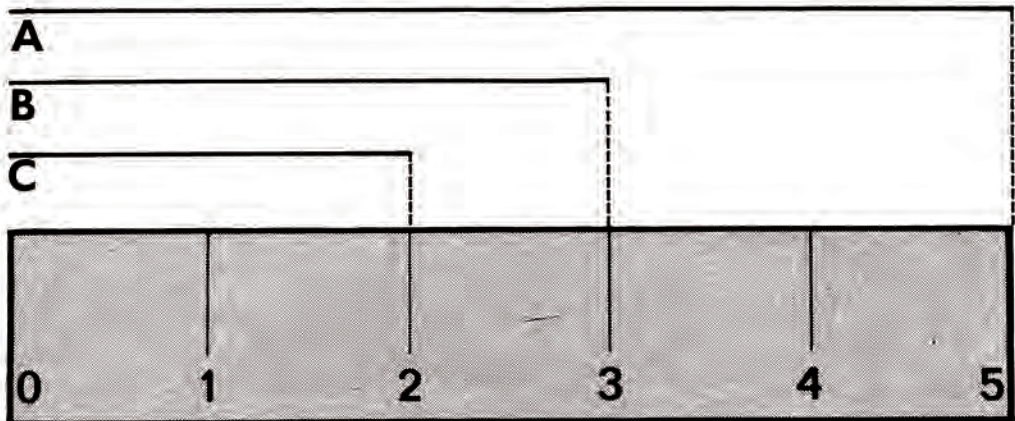
yes

Look at the number 2. It means that the space from the 0 end of the line to the number 2 is  $\langle \begin{matrix} 2 \\ 3 \end{matrix} \rangle$  inches.

2

Look at the number 3. It means that the space from the 0 end of the line to the number 3 is \_\_\_\_\_ inches.

3



5

Line **A** is \_\_\_\_\_ inches long.

3

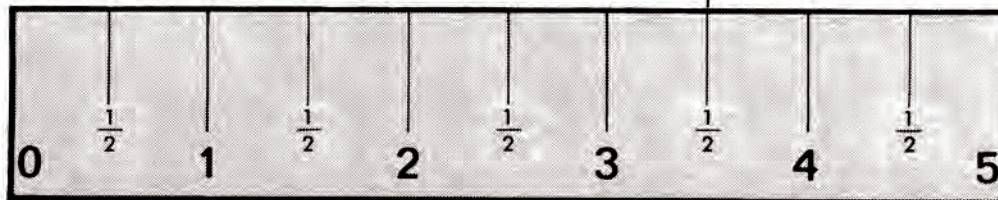
Line **B** is \_\_\_\_\_ inches long.

2

Line **C** is \_\_\_\_\_ inches long.



**A**



Every inch has been divided into 2 equal parts.

Each of the 2 parts is  $\frac{1}{2}$  inch.

Look at line A.

It is  $\left\langle \begin{array}{c} \text{more} \\ \text{less} \end{array} \right\rangle$  than 3 inches long.

But it is  $\left\langle \begin{array}{c} \text{more} \\ \text{less} \end{array} \right\rangle$  than 4 inches long.

Does the line come just to the  $\frac{1}{2}$ -inch

mark after the 3-inch mark?      **yes**  
no

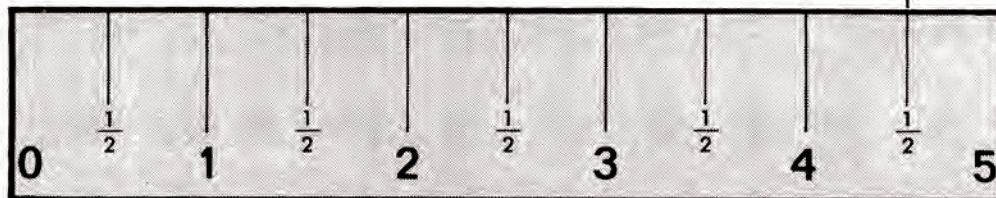
So the line is 3 inches +  $\frac{1}{2}$  inch, or  $3\frac{1}{2}$  inches long.

more

less

yes

**B**



Line **B** is  $4\frac{1}{2}$  inches long.

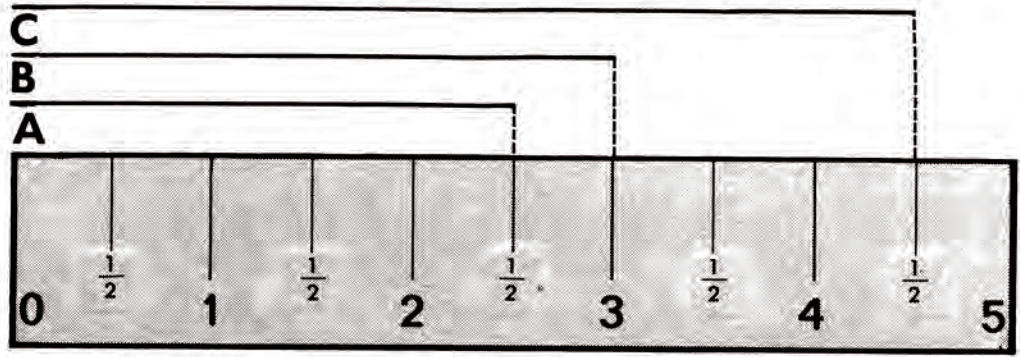


$4\frac{1}{2}$

$2\frac{1}{2}$

3

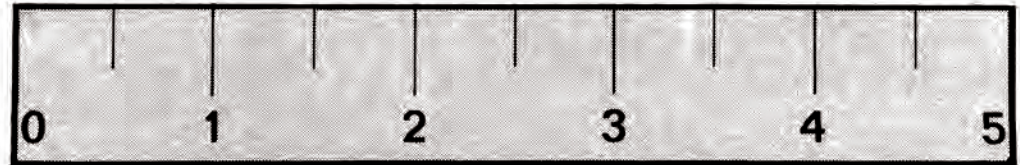
$4\frac{1}{2}$



Line **A** is    — inches long.

Line **B** is    inches long.

Line **C** is    — inches long.



Sometimes the  $\frac{1}{2}$  inch marks don't have the fractions under them. But you can tell which ones they are.

The  $\frac{1}{2}$  inch marks are right in the middle of the inches.

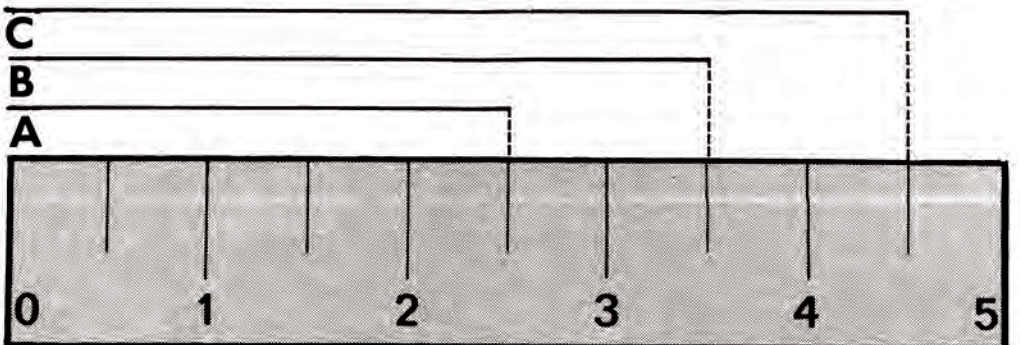
shorter

They are a bit  $\left\langle \begin{array}{l} \text{shorter} \\ \text{longer} \end{array} \right\rangle$  than the inch marks.

$2\frac{1}{2}$

$3\frac{1}{2}$

$4\frac{1}{2}$



Line **A** is    — inches long.

Line **B** is    — inches long.

Line **C** is    — inches long.