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# **Creating a Ruler with 1 inch, $\frac{1}{2}$ inch and $\frac{1}{4}$ inch intervals**

Unit 6 Lesson 5

# Students will be able to...

- Identify the measurement that has 1,  $\frac{1}{2}$  and  $\frac{1}{4}$  inch intervals.
- Plot the measurement data in the ruler.

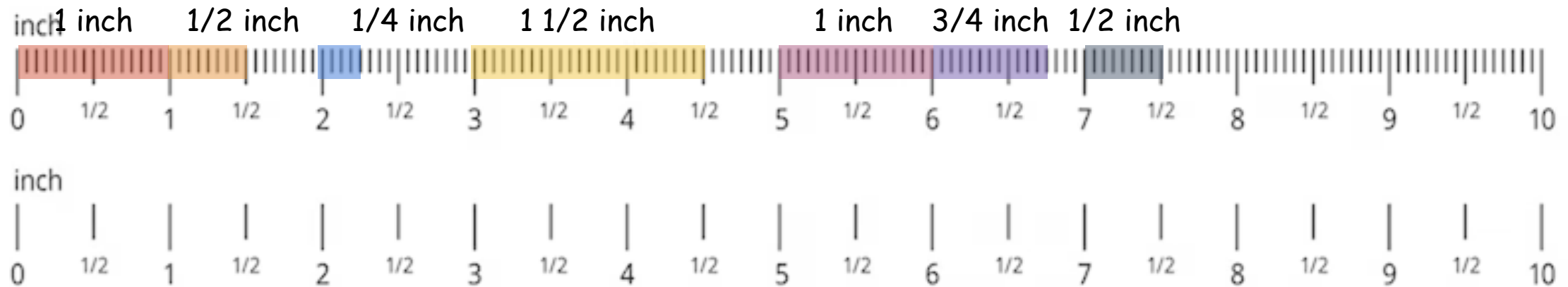
## Keyword

- Ruler
- Inches
- Interval

After solving problems with bar graphs, let's learn how to get measurements using inch intervals!



# How to Read a Ruler



Rulers have 2 sides of measurement, inches and centimeters. Find the side with an inch measurement

- Plot measurement using 1 inch
- Plot measurement using 1/2 inch
- Plot measurement using 1/4 inch

- $1 + 1/2 = 1 \frac{1}{2}$  inch
- $1 + 1/4 = 1 \frac{1}{4}$  inch
- $1/2 + 1/2 = 1$  inch
- $1/2 + 1/4 = 3/4$  inch
- $1/4 + 1/4 = 1/2$  inch

# Sample Activity

What is the measurement of the book?

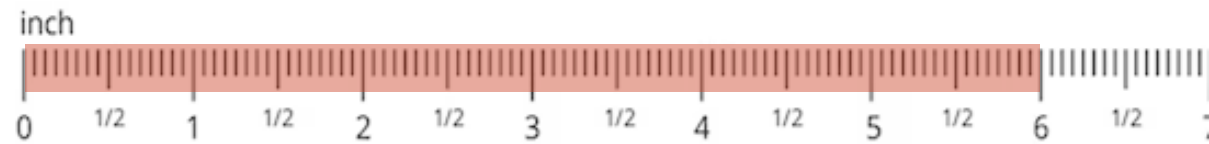
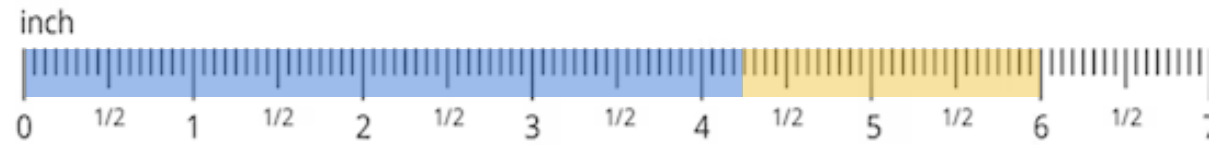
6 inches

What is the measurement of the scissors?

4  $\frac{1}{4}$  inches

Which is longer, the scissors or the book? How many measurements did they differ that made them longer?

The book is longer than the scissors, it is 1  $\frac{3}{4}$  inches longer than the scissors.



# Sample Activity

What is the measurement of the cellphone?

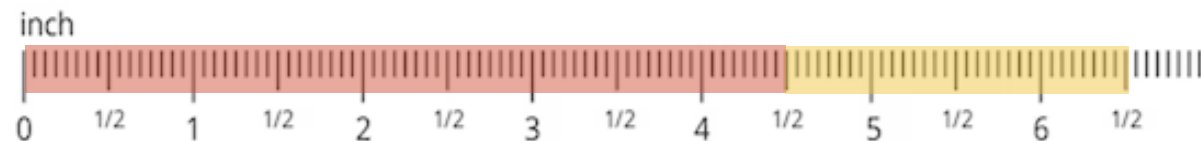
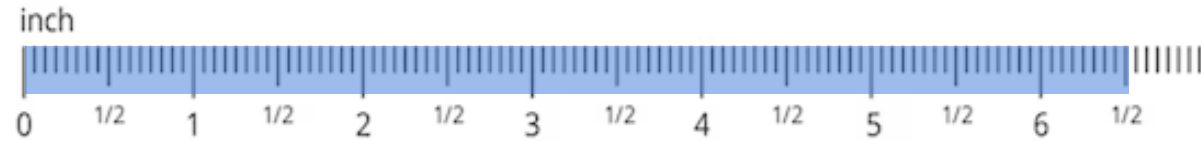
6 1/2 inches

What is the measurement of the credit card?

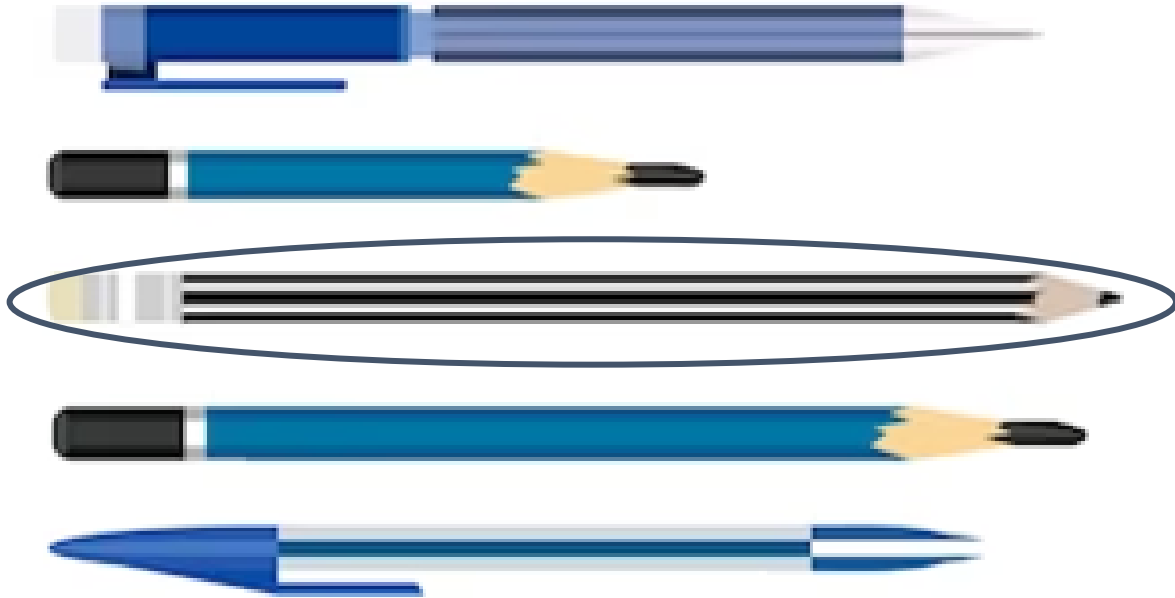
4 1/2 inches

Which is longer, the cellphone or the credit card? How many measurements did they differ that made them longer?

The cellphone is longer than the credit card, it is 2 inches longer than the credit card.



# Sample Activity



Which pen measures  $6 \frac{1}{4}$  inches?

Pen A

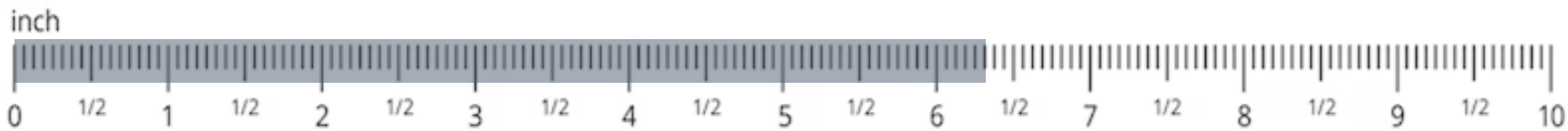
Pen B

Pen C

Pen D

Pen E

Pen C measures  $6 \frac{1}{4}$  inches



# Sample Activity



The sandwich is  $7 \frac{1}{2}$  inch long.  
What will be its measurement if we divide it into halves?

The sandwich will be  $3 \frac{3}{4}$   
when cut into halves

