Name

Date

1. Travis measured 5 different-colored pencils to the nearest inch,  $\frac{1}{2}$  inch, and  $\frac{1}{4}$  inch. He records the measurements in the chart below. He draws a star next to measurements that are exact.

Colored Pencil	Measured to the nearest inch	Measured to the nearest $\frac{1}{2}$ inch	Measured to the nearest $\frac{1}{4}$ inch
Red	7	$6\frac{1}{2}$	$6\frac{3}{4}$
Blue	5	5	$5\frac{1}{4}$
Yellow	6	$5\frac{1}{2}$	$5\frac{1}{2}$
Purple	5	$4\frac{1}{2}$	$4\frac{3}{4}$
Green	2	3	$1\frac{3}{4}$

a. Which colored pencil is the longest? Ked

It measures  $\underline{02}$  inches.

b. Look carefully at Travis's data. Which colored pencil most likely needs to be measured again? Explain how you know.

The green pencil should be measured again because the "3" is an answer that doesn't make sense.



2. Evelyn marks a 4-inch paper strip into equal parts as shown below.



- a. Label the whole and half inches on the paper strip.
- b. Estimate to draw the  $\frac{1}{4}$  inch marks on the paper strip. Then, fill in the blanks below.



3. Travis says his yellow pencil measures  $5\frac{1}{2}$  inches. Ralph says that's the same as 11 half inches. Explain how they are both correct.



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