

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Travis measured 5 different color 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.

Color 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 color pencil is the longest? \_\_\_\_\_

It measures \_\_\_\_\_ inches.

- b. Look carefully at Travis' data. What color pencil most likely needs to be measured again? Explain how you know.



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.

1 whole inch is equal to \_\_\_\_\_ half inches.

1 whole inch is equal to \_\_\_\_\_ quarter inches.

$\frac{1}{2}$  inch is equal to \_\_\_\_\_ quarter inches.

$\frac{2}{4}$  inch is equal to \_\_\_\_\_ half inch.

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.