

Writing to Explain

Stanley and Mary are growing plants in science class. Stanley's plant is $1\frac{3}{8}$ in. tall. Mary's plant is 4 times as tall. How tall is Mary's plant?

When you are writing to explain your solution,

- include the work you did that led to that solution.
- describe the steps and operations you used in the order you used them.
- refer to any diagrams or data that provide important information or supporting details.

To find the height of Mary's plant, I multiplied the height of Stanley's plant by 4.

Before multiplying I estimated

$$1\frac{3}{8} \times 4 \rightarrow 1 \times 4 = 4$$

$$1\frac{3}{8} \times 4 = \frac{11}{8} \times \frac{4}{1} = \frac{11}{2} = 5\frac{1}{2}$$

$5\frac{1}{2}$ is close to 4, so my answer is reasonable.

So Mary's plant is $5\frac{1}{2}$ in. tall.

Explain your solution and show your work.

1. Paula is 12 years old. Tess is 4 more than $\frac{3}{4}$ Paula's age. How old is Tess?

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Explain your solution and show your work.

1. Rita is riding in an 18 mi bike race. She takes a break every $4\frac{1}{2}$ mi. How many breaks will she take?

2. Frederick makes toy rocking horses. He needs $7\frac{1}{2}$ ft of wood to make a small horse and $9\frac{3}{4}$ ft of wood to make a large horse. How many feet of wood does he need to make 5 small horses and 7 large horses?

3. Sephina is baking bread for the school bake sale. She is planning on baking 15 small loaves and 5 large loaves. For each of the small loaves, she needs $1\frac{2}{3}$ c of flour. For each of the large loaves, she needs $4\frac{1}{5}$ c of flour. How many cups of flour does she need altogether?
