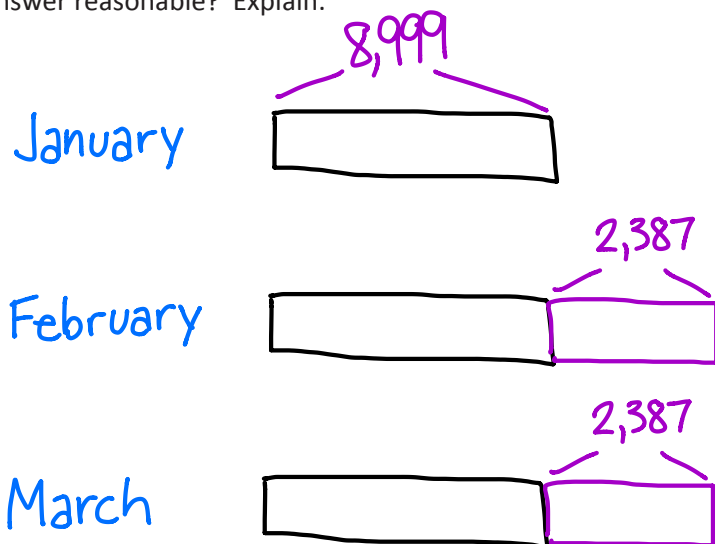Name _____   Date _____

Model the problem with a tape diagram. Solve and write your answer as a statement.

In January, Scott earned $8,999. In February, he earned $2,387 more than in January. In March, Scott earned the same amount as in February. How much did Scott earn altogether during those three months? Is your answer reasonable? Explain.

8,999

January

Estimate

$$9000 + 9000 + 9000 + 2000 + 2000$$
$$= 31,000$$

2,387

February

2,387

March

$$8,999 + 8,999 + 8,999 + 2,387 + 2,387$$

$$9,000 + 9000 + 9000 + 2,387 + 2,384$$

$$27,000 \qquad + \qquad 4,771$$

$$31,771$$

$$\begin{array}{r} 2,387 \\ + 2,384 \\ \hline 4,771 \end{array}$$

$$\begin{array}{r} 27,000 \\ + \ 4,771 \\ \hline 31,771 \end{array}$$

Scott earned $31,771 during the three months. My answer is reasonable because it is close to the estimate.

Lesson 12: Solve multi-step word problems using the standard addition algorithm modeled with tape diagrams, and assess the reasonableness of answers using rounding.

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