

## Brief Constructed Response

Troy had this problem on a recent Warm-up in math class.

$$2.36 \times 5.7$$

**Part A** Find the product.

### Part B

Use what you know about multiplying decimal numbers to explain why your answer is correct. Use words and/or numbers in your explanation.

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Part A Find the product. <sup>3</sup>

$$\begin{array}{r} \overset{2}{2}.\overset{1}{3}\overset{4}{6} \\ \times \quad 5.7 \\ \hline 1.652 \\ + 11.800 \\ \hline 13.452 \end{array}$$

Part B

Use what you know about multiplying decimal numbers to explain why your answer is correct. Use words and/or numbers in your explanation.

I multiplied  $2.36 \times .7 = 1.652$ .

I multiplied  $2.36 \times 5 = 11.800$

Then, I add the products together.  $\begin{array}{r} 1.652 \\ 11.800 \\ \hline 13.452 \end{array}$ .

I know I had to put my decimal point between the ones and the tens.

I knew that  $2 \times 5 = 10$  so my answer was going to be about ten, that also helped me place my decimal point.

I know my answer had decimals to the thousandth because I multiplied tenths times hundredths.