## Activity 12 Assessment

## Multiplying Decimals

| Multiplying Decimals |  |  |  |
| :---: | :---: | :---: | :---: |
| Estimates the product of two decimals | Multiplies a decimal by a whole number using a method of their choice | Multiplies a decimal by a decimal using whole numbers | Solves applied problems that involve the multiplication of decimals |
| $3.8 \times 12.3$ <br> " 3.8 is close to 4 and 12.3 is close to 12 . I can estimate the product as $4 \times 12$, which is 48 ." | $3 \times 2.4$ <br> "I can think of this as 3 hops of 2.4 on a number line. $3 \times 2.4=7.2 . "$ | "To calculate $12.8 \times 9.3$, I can multiply each number in the product by 10 . The calculation becomes $128 \times 93$, which I know how to do. | Nola earns \$28.74 per hour as an apprentice millwright. How much do they earn in 7.5 h ? |
|  |  | $\begin{array}{r} 128 \\ \times \quad 93 \\ \hline 384 \\ 11520 \\ \hline 11904 \end{array}$ | "I know $8 \times 30=240$, so my answer should be less than $\$ 240$. I need to determine $28.74 \times 7.5$ I create a related product by multiplying the first number by 100 and the second number by 10 . |
|  |  | Since I multiplied the terms in the product by $10 \times 10$, or 100 , I need to divide my answer by 100 . $12.8 \times 9.3=119.04 . "$ | $\begin{array}{r} 2874 \\ \times \quad 75 \\ \hline 14370 \\ 201180 \\ \hline 215550 \end{array}$ |
|  |  |  | Since I multiplied by $100 \times 10$, or 1000, I divide the answer by 1000. Nola earns \$215.55." |

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