Number

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 × 12.3 "3.8 is close to 4 and 12.3 is close to 12. I can estimate the product as 4 × 12, which is 48."	3 × 2.4 "I can think of this as 3 hops of 2.4 on a number line. $4 + \frac{1}{0} + \frac{24}{2} + \frac{2}{3} + \frac{48}{5} + \frac{3}{6} + \frac{72}{7} + \frac{1}{8} + \frac{3}{3} + \frac{72}{3} + \frac{1}{3} + \frac{3}{5} + \frac{72}{5} + \frac{1}{3} $	"To calculate 12.8 × 9.3, I can multiply each number in the product by 10. The calculation becomes 128 × 93, which I know how to do. $\frac{128}{\frac{\times 93}{384}}$ $\frac{11520}{11904}$ Since I multiplied the terms in the product by 10 × 10, or 100, I need to divide my answer by 100. 12.8 x 9.3 = 119.04."	Nola earns \$28.74 per hour as an apprentice millwright. How much do they earn in 7.5 h? "I know $8 \times 30 = 240$, so my answer should be less than \$240. I need to determine 28.74×7.5 I create a related product by multiplying the first number by 100 and the second number by 10. $\frac{2874}{215550}$ Since I multiplied by 100 × 10, or 1000, I divide the answer by 1000. Nola earns \$215.55."		



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Observations/Documentation				