

Calculate With the Units in View

Name: _____

Date: _____

Name the units. $1.6 + 0.28 = 1.60 + 0.28 = 1.88$. In multiplication, 0.2×0.3 is 6 hundredths, or 0.06. Addition and multiplication use different unit structures.

Explore and explain

1. Calculate $3.7 + 0.48$. Show how you align equal units.

2. Find 0.6×0.4 . Explain why the product counts hundredths.

3. A student writes $5.4 \div 0.9 = 54 \div 0.9$. Repair the quotient and explain what must be scaled.

Apply and transfer

- Tower School

Think Like a Mathematician

Optional extension. Choose a strategy and justify why it works. Try a diagram, organized cases, a simpler example, or an equation.

7. Use each digit 2, 4, and 7 exactly once to form a number of the form $\square.\square\square$. Which arrangement gives the greatest product when multiplied by 0.5? Which gives the least? Explain without calculating all six products.

8. A quotient is 0.8. A student multiplies the dividend by 100 and the divisor by 10. What is the new quotient? Explain with an example and then with a general relationship.