Multiplying Decimals in Context

Decimals

Name: _____ Date: _____ Grade 6

1. Determine the value of each expression.

a $4 \cdot (0.5)$ _____

b $(7.3) \cdot 3$ _____

c $2 \cdot (14.6)$ _____

d $(0.8) \cdot 6$ _____

2. Cheese at the deli costs $6.89 per pound. Tara buys 1.75 pounds. How much will she pay, rounded to the nearest cent? Show your thinking.

Problems 3–6: Determine the value of each expression using any strategy. Show or explain your thinking.

3. $(2.6) \cdot (4.8)$

4. $(1.5) \cdot (8.8)$

5. $(0.62) \cdot (0.5)$

6. $(7.35) \cdot (5.06)$

Multiplying Decimals in Context

continued

7. **A dog weighs 6.8 kilograms and a cat weighs 12.5 pounds. Which weighs more, and by how much? (1 kilogram = 2.2 pounds) Show your thinking.**

8. **Apples cost $1.89 per pound and grapes cost $3.49 per pound. What is the total cost of 2.5 pounds of apples and 1.2 pounds of grapes? Round to the nearest cent.**

9. **Here are three shapes.**

   - A rectangle with a base of 7.25 cm and a height of 4.6 cm
   - A square with side lengths of 5.8 cm
   - A rectangle that is 12.4 cm wide and 2.7 cm long

   Mia says the square has the greatest area. Is Mia correct? Explain your thinking.

10. **There are 3.25 grams of protein in 1 ounce of yogurt. Sam says there are 2.6 grams of protein in 8 ounces of yogurt. Is Sam correct? Explain your thinking.**