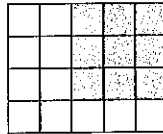


Additional Practice**Investigation 2****Bits and Pieces III**

1. Josh and his father are estimating how much gas they will need for a car trip. They know that the car gets 39 miles per gallon. Estimate how many gallons of gas they will need for a trip of 778 miles. Explain your reasoning.
2. The diagram below shows a rectangular plot of land cut into squares of 2.65 acres each.



- a. What is the acreage of the shaded region?
 - b. What is the acreage of the unshaded region?
 - c. In this area, land sells for \$2,475 per acre.
 - i. What would the price of the shaded region be?
 - ii. What would the price of the unshaded region be?
 - d. In this area, owners pay property taxes of \$13.50 per thousand dollars of property value. What is the total annual property tax for the shaded and unshaded regions combined? Explain.
3. Use the number sentence $123 \times 4 = 492$ to help you solve the following:
- | | | |
|----------------------|-----------------------|------------------------|
| a. 12.3×4 | b. 1.23×4 | c. 0.123×4 |
| d. 0.123×40 | e. 0.123×400 | f. 0.123×4000 |

Additional Practice *(continued)*

4. Use the number sentence $63 \times 501 = 31,563$ to help you solve the following:

a. 6.3×5.01

b. 6.3×0.501

c. 6.3×50.1

d. 0.63×5.01

e. 0.63×501

f. 0.63×0.501

5. For each of the following problems, estimate the product. Explain.

a. 2.4×0.8

b. 5.21×1.1

c. 1.29×8

d. $12.2 \times \frac{1}{2}$

e. 74.6×1.5

f. 3.04×100

6. For (a)–(f) in problem 5 above, find the product. Show your work.

7. Compute each product. What patterns do you notice?

a. 5.5×9.9

b. 5.5×9.99

c. 5.5×9.999

d. 5.5×9.9999

Skill: Multiplying Decimals**Investigation 2****Bits and Pieces III**

Place the decimal point in each product.

1. $4.3 \times 2.9 = 1247$

2. $0.279 \times 53 = 14787$

3. $5.90 \times 6.3 = 3717$

Find each product.

4. 43.59×0.1

5. 246×0.01

6. 726×0.1

7.
$$\begin{array}{r} 5.342 \\ \times 13 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 0.19 \\ \times 0.05 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 6.4 \\ \times 0.09 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 240 \\ \times 0.02 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 43.79 \\ \times 42 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 0.72 \\ \times 0.43 \\ \hline \end{array}$$

Skill: Multiplying Decimals *(continued)***Investigation 2****Bits and Pieces III**

Use mental math to find each product.

13. 5.97×100

14. $4 \times 0.2 \times 5$

15. $3 \times (0.8 \times 1)$

16. 5.23×100

17. $0.38 \cdot 1,000$

18. $(5)(4.2) \times 10$

Write a number sentence you could use for each situation.

19. A pen costs \$0.59. How much would a dozen pens cost?

20. A mint costs \$0.02. How much would a roll of 10 mints cost?

21. A bottle of juice has a deposit of \$0.10 on the bottle. How much deposit money would there be on 8 bottles?

22. An orange costs \$0.09. How much would 2 dozen oranges cost?

Use $<$, $=$, or $>$ to complete each statement.

23. 2.8×10 \square $26 \cdot 100$

24. $38.6 \cdot 10$ \square $2 \cdot 38.6 \cdot 5$

25. 3.1×10 \square $(0.5 \cdot 0.2)3.1$

26. $8.3 \cdot 10 \cdot 1$ \square 8.3×100