## Multiplication Quiz 2

**1.** Solve these problems using any method you choose. Estimate to make sure your answers are reasonable.

**B.** 
$$42 \times 80 =$$

**C.** 
$$53 \times 28 =$$

**E.** 
$$40 \times 500 =$$

- F. Show your estimation strategy for Question 1C.
- **G.** Choose two of these problems and show how you can solve them using mental math.

2. Grace drew this rectangle to solve a multiplication problem. She wrote the partial products but not the numbers along the sides. Fill in the circle next to the problem Grace was solving.

30 × 40 = 1200	30 × 2 = 60
8 × 40 = 320	8 × 2 = 16

 $\bigcirc$  **A.** 34 × 24 =

 $\bigcirc$  **B.** 38  $\times$  42 =

 $\bigcirc$  **C.** 83  $\times$  42 =

- $\bigcirc$  **D.** 32 × 48 =
- **3.** Estimate an answer for  $386 \times 29$ . Fill in the circle next to the most reasonable answer. Do not find the exact answer for the problem. Show how you estimated to the right.
  - A. 23,784
  - **◯ B.** 1394
  - C. 13,644
  - **D.** 11,194
- **4.** Draw a circle around the four partial products that you get when using the all-partials method to solve  $62 \times 58$ .
  - $8 \times 20$
- $80 \times 60$
- 50 × 2
- $50 \times 8$

- $50 \times 60$
- $50 \times 20$
- $8 \times 60$
- $8 \times 2$

5. Michael solved this problem using the compact method.

$$\begin{array}{r}
 & 4 \\
 & 36 \\
 \times 17 \\
 & 252 \\
 & 360 \\
 \hline
 & 612 \\
 \end{array}$$

- A. What does the small 4 above the 3 mean?
- **B.** What did Michael multiply to get the partial product of 252?
- C. How did Michael get the 5 in the tens place in the first partial product?
- **D.** How did Michael get the 0 in the ones place in the second partial product?
- **6.** Solve this problem from a math book from 1975: There are 45 families in an apartment building. Each family pays \$45 per week in rent and \$5 per week for electricity. How much money does the owner collect each week? Show or tell how you solve the problem.

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Multiplication Quiz 2			
Feedback Box	Expectations	Check In	Comments
Demonstrate understanding of the place value concepts and mathematical properties involved in operations with multidigit numbers (e.g., use the distributive property to multiply). [Q# 2, 4, 5]	E1		
Show connections between models and strategies for multiplication (e.g., demonstrate partial products using a rectangle model for multiplication). [Q# 2]	E2		
Estimate products of multidigit numbers. [Q# 1F, 3]	Е3		
Multiply multidigit numbers using mental math strategies and paper-and-pencil methods (e.g., expanded form, all-partials). [Q# 1, 2, 4, 5, 6]  • Using mental math [Q# 1G]  • Using rectangles [Q# 2]  • Using all-partials [Q# 4]	E4		
Multiply 2-digit by 2-digit numbers using the compact method. [Q# 5]	E5		
Choose appropriately from among estimation, mental math strategies, and paper-and-pencil methods to multiply whole numbers. [Q# 1, 6]	E6		