

Multiplication Quiz 1

Solve using the rectangle model, expanded form, the all-partials method, or mental math. Do not use a calculator. Estimate in your head to be sure your answers are reasonable. Use the strategies you recorded on the *My Multiplication Menu* page.

1. 78×4

2.
$$\begin{array}{r} 432 \\ \times 5 \\ \hline \end{array}$$

3. 23×75

4.
$$\begin{array}{r} 20 \\ \times 40 \\ \hline \end{array}$$

5. 72×39

6. A. What convenient numbers did you use for your estimate for Question 3?

B. Choose two problems from Questions 1–5. Show or tell how you can solve them using mental math or a few quick notes.

The Confused Contessa solved the problems in Questions 7, 8, and 9. Estimate to see if her answers are reasonable. Find her mistakes and draw a circle around the incorrect part. Then solve the problems correctly using her method.

Contessa's Work

Your Estimate

Your Solution

7.

$$\begin{array}{r}
 63 = 60 + 3 \\
 \times 27 \\
 \hline
 21 \\
 420 \\
 140 \\
 + 60 \\
 \hline
 641
 \end{array}$$

$\leftarrow 7 \times 3$
 $\leftarrow 7 \times 60$
 $\leftarrow 20 \times 7$
 $\leftarrow 20 \times 3$

Contessa's Work

Your Estimate

Your Solution

8.

$$\begin{array}{r}
 95 \\
 \times 31 \\
 \hline
 \end{array}$$

	90	5	
30	$30 \times 90 = 270$	$30 \times 5 = 150$	270 150 90
1	$1 \times 90 = 90$	$1 \times 5 = 5$	$+ 5$ <u>515</u>

Contessa's Work

Your Estimate

Your Solution

9.

$$\begin{array}{r}
 84 \\
 \times 46 \\
 \hline
 24 \\
 48 \\
 16 \\
 + 32 \\
 \hline
 120
 \end{array}$$

Food packages give information about the calories and fat in the food. Here are some examples.

Food	Serving Size	Servings per Box	Calories per Serving	Grams of Fat per Serving
fancy cookie	1	24	68	6
pizza	slice	8	170	9

10. How many calories are there in 3 slices of pizza? Show how you know.

11. How many grams of fat are there in a whole box of fancy cookies? Show how you know.

12. How many calories are there in a whole box of fancy cookies? Show how you know.

Multiplication Quiz 1 Feedback Box

	Expectation	Check In	Comments
Show how to use place value in multiplication. [Q# 7,8]	E1		
Estimate products. [Q# 6A]	E3		
Multiply multidigit numbers. [Q# 1–12] <ul style="list-style-type: none"> • Using mental math [Q# 6B] • Using rectangles [Q# 8] • Using expanded form [Q# 7] • Using the all-partials method [Q# 9] 	E4		
Choose appropriately from among mental math strategies and paper-and-pencil methods to multiply multidigit numbers. [Q# 1–12]	E6		