

LESSON 8 ESTIMATING

- OBJECTIVES:**
- ▣ Estimate answers for multiplication problems
 - ▣ Compare estimates to actual values

Estimating answers is helpful in finding errors. In your work, you would estimate mentally (in your head). For these exercises, you will record your estimates and compare them to the actual answers.

1. Round each number to the closest numbers that you can easily multiply. (Ten is often the simplest.)
2. Multiply the estimates to come up with your estimated total.
3. Multiply the actual numbers for the actual total.
4. Compare the two totals to see how accurately you estimated. (The closer your estimate the nearer you will be to the actual total.)

Exercise 1: Estimate the numbers below, estimate their product, and calculate the actual product.

Problem	Estimated Numbers	Estimated Product	Actual Product
Ex. $78 \times 11 =$	<u> $80 \times 10 =$ </u>	<u> 800 </u>	<u> 858 </u>
1. $132 \times 9 =$	_____	_____	_____
2. $207 \times 18 =$	_____	_____	_____
3. $347 \times 16 =$	_____	_____	_____
4. $912 \times 28 =$	_____	_____	_____
5. $1032 \times 5448 =$	_____	_____	_____
6. $338 \times 1987 =$	_____	_____	_____
7. $267 \times 914 =$	_____	_____	_____
8. $208 \times 976 =$	_____	_____	_____
9. $9678 \times 3211 =$	_____	_____	_____
10. $459 \times 93 =$	_____	_____	_____

Exercise 2: Estimate the products below and calculate the actual product.

Problem	Estimated Product	Actual Product
1. $745 \times 127 =$	_____	_____
2. $834 \times 107 =$	_____	_____
3. $4870 \times 832 =$	_____	_____
4. $265 \times 502 =$	_____	_____
5. $1205 \times 765 =$	_____	_____
6. $845 \times 629 =$	_____	_____
7. $2976 \times 421 =$	_____	_____
8. $555 \times 7900 =$	_____	_____

Lesson 8 Review: Use any of the exercises in this textbook and estimate the answers. Then compare your estimates to the actual answers. When you are comfortable estimating, continue with Lesson 9.

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