**Number**

**Unit 2 Line Master 10a**

Multiplying Decimals Using   
 Powers of 10

1. How can you use the fact that 24.6 × 18.3 = 450.18  
 to determine each product.  
 a) 246 × 183

b) 2.46 × 1.83

c) 0.246 × 0.183

**Number**

**Unit 2 Line Master 10b**

Multiplying Decimals Using   
 Powers of 10 (cont’d)

1. Follow these steps to determine each product below.

* Convert to a product of whole numbers by multiplying each decimal number by a power of 10.
* Multiply each pair of whole numbers.
* Divide the result by the appropriate power of 10.   
  It should be equal to the product of the powers of 10   
  you used in the first step.

a) 3.25 × 6.4 b) 75.4 × 10.7

3. Why do the strategies you used in Questions 1 and 2 work?