Name_____ Date_____

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

Multiplying Decimals Using Powers of 10 (cont'd)

2. 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?