## **Estimating Products and Quotients**

You can use rounding or compatible numbers to estimate products and quotients.

## **Rounding:**

Round each factor to the nearest whole number and multiply.

## **Compatible Numbers:**

Find compatible numbers and divide.

16.173 
$$\div$$
 2.45  $\downarrow$  15  $\div$  3 = 5 so 16.173  $\div$  2.45  $\approx$  5

Use rounding to estimate each answer.

**3.** 
$$7.349 \times 5.62$$

**5.** 
$$8.498 \times 5.602$$

**9.** 
$$2.81 \times 17.638$$

Use compatible numbers to estimate each answer.

**13.** 
$$16.954 \div 3.5$$
 **14.**  $17.158 \times 8.99$  **15.**  $38.753 \div 8.461$ 

**19.** Writing to Explain Elena used rounding to estimate  $7.864 \times 3.29 \approx 24$ . Peter used rounding to estimate  $7.864 \times 3.29 \approx 32$ . Which student is correct? What mistake was made?