

Multiplying and Dividing by Powers of Ten—Practice

To Multiply a Number by a Power of Ten: Move the decimal point to the right. The number of places to move is shown by the number of zeros in the power of ten.

To Divide a Number by a Power of Ten: Move the decimal point to the left. The number of places to move is shown by the number of zeros in the power of ten.

Directions: Multiply or divide as indicated.

- A. Multiply: $22.58(10)$
- B. Multiply: $0.017(100)$
- C. Find the product: $31.45(10^3)$
- D. Divide: $334 \div 10$
- E. Divide: $5.267 \div 100$
- F. Find the quotient: $68.935 \div 10^4$
- G. One hundred sheets of clear plastic are 0.05 inch thick. How thick is each sheet? (This is the thickness of some household plastic wrap.)

Answers to Warm Ups:

- A. 225.8
- B. 1.7
- C. 31,450
- D. 33.4
- E. 0.05267
- F. 0.0068935
- G. 0.0005 inch