

1 Write the following numbers in scientific notation.

a 8,007,000,000

I move the decimal point 9 places to the left, immediately after the 8:

$$8.007 \times 10^9.$$

b 0.000 030 9

I move the decimal point 5 places to the right, immediately after the 3:

$$3.09 \times 10^{-5}.$$

2 A foot is 12 inches. How many inches is 13 feet? (Show what numerical calculation you make to find the answer.)

$$13 \text{ ft} = 13 \times 12 \text{ in} = 156 \text{ in}.$$