## Multiply by powers of 10

When multiplying by powers of 10, we move the decimal to the right for each power of ten.

Example:

$$72.64 \times 10^1 = 726.4$$

Shift decimal point one place to the right

a) $45.095 \times 10^2 =$

b) $7.23 \times 10^3 =$

c) $87.125 \times 100 =$

## Divide by powers of 10

When dividing by powers of 10, we move the decimal to the left for each power of ten.

Example:

$$72.64 \div 10^2 = .7264$$

Shift decimal point two places to the left

d) $380.12 \div 10^3 =$

e) $23.5 \div 10 =$

f) $124.98 \div 10^2 =$