

**The Science of Physics**

**HOLT PHYSICS**

**Mixed Review**

Power	Prefix	Abbreviation
$10^{-18}$	atto-	a
$10^{-15}$	femto-	f
$10^{-12}$	pico-	p
$10^{-9}$	nano-	n
$10^{-6}$	micro-	$\mu$
$10^{-3}$	milli-	m
$10^{-2}$	centi-	c

Power	Prefix	Abbreviation
$10^{-1}$	deci-	d
$10^1$	deka-	da
$10^3$	kilo-	k
$10^6$	mega-	M
$10^9$	giga-	G
$10^{12}$	tera-	T
$10^{15}$	peta-	P
$10^{18}$	exa-	E

- Convert the following measurements to the units specified.
  - 2.5 days to seconds \_\_\_\_\_
  - 35 km to millimeters \_\_\_\_\_
  - 43 cm to kilometers \_\_\_\_\_
  - 22 mg to kilograms \_\_\_\_\_
  - 671 kg to micrograms \_\_\_\_\_
  - $8.76 \times 10^7$  mW to gigawatts \_\_\_\_\_
  - $1.753 \times 10^{-13}$  s to picoseconds \_\_\_\_\_
- According to the rules given in Chapter 1 of your textbook, how many significant figures are there in the following measurements?
  - 0.0845 kg \_\_\_\_\_
  - 37.00 h \_\_\_\_\_
  - 8 630 000.000 mi \_\_\_\_\_
  - 0.000 000 0217 g \_\_\_\_\_
  - 750 in. \_\_\_\_\_
  - 0.5003 s \_\_\_\_\_