

4.8

Scientific Notation

10/19

- larger or smaller #'s easy to write
- base is always 10
- the decimal has to be moved to make a # between 0 and 10.

$$\underline{3.78} \times 10^6$$

3,780,000

$$\underline{5.1} \times 10^{-5}$$

0.000051

$$32,800$$

$$3.28 \times 10^4$$

0.0049

$$4.9 \times 10^{-3}$$

$$d = vt$$

$$5.90 \times 10^9 = 30 \times 10^5 \cdot t$$

$$\frac{6.0 \times 10^9}{3.0 \times 10^5} = \frac{(30 \times 10^5) \cdot t}{3.0 \times 10^5}$$

$$2.0 \times 10^4 \text{ seconds} = t$$

$$d = r t$$

$$\frac{6.0 \times 10^9}{3.0 \times 10^5} = \frac{3.0 \times 10^5 \cdot t}{3.0 \times 10^5}$$

$$2 \times 10^4 \text{ seconds} = t$$

10/19 Homework
pg. 189
12-46 even