

REVIEW

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SECTION 1.3

Organizing Data

1. **Convert** the following measurements from scientific notation to long form:

- _____ a. 2.54×10^{-3} cm
_____ b. 9.5×10^4 km
_____ c. 3.3×10^{-1} L
_____ d. 7.445×10^2 g

2. **Convert** the following measurements to scientific notation:

- _____ a. 325 kg
_____ b. 0.000 46 m
_____ c. 7104 km
_____ d. 0.0028 L

3. **Find** the number of significant digits in each of the following:

- _____ a. 0.003 26
_____ b. 39 010
_____ c. 77 900.1
_____ d. 1.5300

4. **Calculate** the following, and round to the correct number of significant figures:

- _____ a. $(3.1 \times 10^2 \text{ cm}) \times (1.22 \times 10^4 \text{ cm})$
_____ b. $(2.99 \times 10^5 \text{ km}) \times (6.88 \times 10^2 \text{ km})$
_____ c. $(5.75 \times 10^{-5} \text{ m}) \div (9.9 \times 10^{-2} \text{ m})$
_____ d. $(7.83 \times 10^4 \text{ m}) \div (3 \text{ s})$

5. **Explain** how results can be precise but not accurate.

6. **Explain** why bar graphs are useful for comparing data.

