1. Express each of the following measurements in common notation:

a) 5.4 x 103 kg \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ d) 7.29 x 10-3 g \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) 6.75 x 10-6 s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ e) 5.0 x 106 m \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) 9.28 x 104 m \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ f) 8.5 x 10 –2 s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Convert each of the following to common notation.

Examples: 2.5 x 102 m = 250 m 1.6 x 10-3 s = 0.0016 s

a) 5.4 x 103 kg \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ d) 7.29 x 10-3 g \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) 6.75 x 10-6 s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ e) 5.0 x 106 m \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) 9.28 x 104 m \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ f) 8.5 x 10 –2 s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Express the following measurements in scientific notation.

a) 14 200 km \_\_\_\_\_\_\_\_\_\_\_\_ c) 487 000 kg \_\_\_\_\_\_\_\_\_\_\_\_\_ d) 0.00375 g\_\_\_\_\_\_\_\_\_\_\_

b) 0.00056 s \_\_\_\_\_\_\_\_\_\_\_\_ e) 0.0000945 g \_\_\_\_\_\_\_\_\_\_\_\_ f) 5 999 m\_\_\_\_\_\_\_\_\_\_\_\_\_