

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

## Metric conversion practice

Convert the following numbers:

1) 1000 mg = \_\_\_\_\_ g

6) 1200 m = \_\_\_\_\_ km

2) 1000 g = \_\_\_\_\_ kg

7) 3456 mm = \_\_\_\_\_ m

3) 1000 ml = \_\_\_\_\_ L

8) 55 mm = \_\_\_\_\_ cm

4) 47 mm = \_\_\_\_\_ cm

9) 4568 m = \_\_\_\_\_ km

5) 130 cm = \_\_\_\_\_ m

State the name of the metric prefix and its symbol for each of the following numbers:

10)  $10^{-2}$  \_\_\_\_\_

14)  $10^{-1}$  \_\_\_\_\_

11)  $10^{-9}$  \_\_\_\_\_

15) 0.000001 \_\_\_\_\_

12) 1000 \_\_\_\_\_

16)  $10^{-3}$  \_\_\_\_\_

13)  $10^3$  \_\_\_\_\_

Write the symbol for the following metric units:

17) microgram \_\_\_\_\_

18) micrometer \_\_\_\_\_

19) kilometer \_\_\_\_\_

20) millisecond \_\_\_\_\_

21) deciliter \_\_\_\_\_

22) kilocalorie \_\_\_\_\_

23) centiliter \_\_\_\_\_

24) nanogram \_\_\_\_\_

**Write the name of the unit indicated by the following symbols**

25) m \_\_\_\_\_

26)  $\mu\text{s}$  \_\_\_\_\_

27) mL \_\_\_\_\_

28) dm \_\_\_\_\_

29) cL \_\_\_\_\_

30) kg \_\_\_\_\_

**Perform the following metric conversions and write the answers in scientific notation.**

31) 1.55 km to m \_\_\_\_\_

32) 0.486 g to cg \_\_\_\_\_

33) 1.885 L to dL \_\_\_\_\_

34) 0.388 m to mm \_\_\_\_\_

35) 0.00125 s to ms \_\_\_\_\_

36) 10.6 dg to g \_\_\_\_\_

37) 125 mL to L \_\_\_\_\_

38) 100 ns to s \_\_\_\_\_

39) 94.6 kcal to cal \_\_\_\_\_

40)  $3.15 \times 10^5$  mg to g \_\_\_\_\_