

Physical Science
Metric Conversions Review Worksheet

Name: _____ Block: ___

1) 2000 mm = _____m

7) 212 mm = _____cm

2) 158 dl = _____liters

8) 8.9 kg = _____mg

3) 6.5 s = _____ms

9) 0.005 kl = _____dl

4) 320 s = _____minutes

10) 12,000,000 mg = _____kg

5) 12 km = _____m

11) 350° F = _____ °C

6) 320 g = _____mg

12) -35 C = _____°F

13) What would be the best SI unit for measuring:

- a. The mass of a car: _____
- b. The mass of a toothpick: _____
- c. The length of your big toe: _____
- d. The length of a football field: _____
- e. The amount of gasoline in a car's gas tank: _____
- f. The amount of liquid you could hold in a thimble: _____

14) Jack and Jill have been dating for 2,500,000 seconds. How long is that in days?

15) Express as in appropriate SI units (for example, 51.3 Megatons):

a. 512×10^9 bytes = _____

b. 2.5×10^{-6} seconds = _____

16) Express in engineering notation (for example, 68.1×10^{-9}):

a. 10.4 milliseconds = _____

b. 64 Megabits = _____

Level 1 Problems:

17) 1500 nm = _____ pm

18) 0.03 Gigatons = _____ kilotons

19) $1200 \text{ cm}^2 =$ _____ m^2

20) $8000 \text{ mm}^3 =$ _____ m^3

21) $0.00045 \text{ m}^2 =$ _____ mm^2

22) 1500 grams/liter = _____ milligrams/milliliter

23) 1200 grams/second = _____ kilograms/hour

24) 3.6 milligrams/liter = _____ grams/milliliter

Answers:

1: 2 2: 15.8 3: 6500 4: 5.3 5: 12,000 6: 320,000 7: 21.2 8: 8,900,000 9: 50 10: 12 11: 177 12: -31
13a: kg b: g or mg c: cm or mm d: m e: liter 14: 29 15a: 512 Gigabytes b: 2.5 microseconds
16a: 10.4×10^{-3} b: 64×10^6 17: 1,500,000 18: 30,000 19: 0.12 20: 0.000 008 21: 450 22: 1500 23: 4320
24: 0.000 003 6