

Name : _____

Score : _____

Metric Conversions and Scientific Notations

Perform the following metric conversions and write the answers in scientific notations.

1) $34260 \text{ m} = \underline{\hspace{2cm}} \text{ mm}$

2) $250 \text{ cm}^2 = \underline{\hspace{2cm}} \text{ m}^2$

3) $4.68 \text{ kg/m}^2 = \underline{\hspace{2cm}} \text{ g/cm}^2$

4) $64 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

5) $5.1 \text{ mm} = \underline{\hspace{2cm}} \text{ m}$

6) $5200 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

7) $2436 \text{ nm} = \underline{\hspace{2cm}} \text{ m}$

8) $15 \text{ m/s} = \underline{\hspace{2cm}} \text{ km/h}$

9) $0.036 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

10) $1 \text{ year} = \underline{\hspace{2cm}} \text{ s}$

11) $82.96 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

12) $100 \text{ km/h} = \underline{\hspace{2cm}} \text{ m/s}$

13) $250 \text{ ms} = \underline{\hspace{2cm}} \text{ s}$

14) $5.0 \text{ m}^3 = \underline{\hspace{2cm}} \text{ cm}^3$

15) $7700 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

16) $600 \text{ kg/m}^3 = \underline{\hspace{2cm}} \text{ g/mm}^3$

17) $108 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

18) $0.011 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

19) $0.99 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

20) $690000 \text{ kg/m}^3 = \underline{\hspace{2cm}} \text{ kg/mm}^3$

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Metric Conversions and Scientific Notations

Answers

1) $34260 \text{ m} = \underline{3.426 \times 10^7} \text{ mm}$

2) $250 \text{ cm}^2 = \underline{2.5 \times 10^{-2}} \text{ m}^2$

3) $4.68 \text{ kg/m}^2 = \underline{4.68 \times 10^{-1}} \text{ g/cm}^2$

4) $64 \text{ mL} = \underline{6.4 \times 10^{-2}} \text{ L}$

5) $5.1 \text{ mm} = \underline{5.1 \times 10^{-3}} \text{ m}$

6) $5200 \text{ km} = \underline{5.2 \times 10^6} \text{ m}$

7) $2436 \text{ nm} = \underline{2.436 \times 10^{-6}} \text{ m}$

8) $15 \text{ m/s} = \underline{5.4 \times 10^1} \text{ km/h}$

9) $0.036 \text{ cm} = \underline{3.6 \times 10^1} \text{ mm}$

10) $1 \text{ year} = \underline{3.16 \times 10^7} \text{ s}$

11) $82.96 \text{ g} = \underline{8.296 \times 10^{-2}} \text{ kg}$

12) $100 \text{ km/h} = \underline{2.78 \times 10^1} \text{ m/s}$

13) $250 \text{ ms} = \underline{2.5 \times 10^{-1}} \text{ s}$

14) $5.0 \text{ m}^3 = \underline{5.0 \times 10^6} \text{ cm}^3$

15) $7700 \text{ km} = \underline{7.7 \times 10^6} \text{ m}$

16) $600 \text{ kg/m}^3 = \underline{6 \times 10^{-4}} \text{ g/mm}^3$

17) $108 \text{ mL} = \underline{1.08 \times 10^{-1}} \text{ L}$

18) $0.011 \text{ cm} = \underline{1.1 \times 10^{-1}} \text{ mm}$

19) $0.99 \text{ km} = \underline{9.9 \times 10^2} \text{ m}$

20) $690000 \text{ kg/m}^3 = \underline{6.9 \times 10^{-4}} \text{ kg/mm}^3$