

Radni listić: Mjerne jedinice

1 Vježbanje sa prefiksima

(Koristi desnu stranu za račun; simboli *, §, †, ‡... označavaju fusnote)

1. $1\text{m} = \underline{\hspace{2cm}} \text{cm}$

2. $2\text{m} = \underline{\hspace{2cm}} \text{cm}$

3. $1\text{cm} = \underline{\hspace{2cm}} \text{m}$

4. $17\text{cm} = \underline{\hspace{2cm}} \text{m}$

5. $1\text{dm} = \underline{\hspace{2cm}} \text{m}$

6. $15\text{dm} = \underline{\hspace{2cm}} \text{m}$

7. $0.5\text{m} = \underline{\hspace{2cm}} \text{dm}$

8. $750\text{cm} = \underline{\hspace{2cm}} \text{m}$

9. $25\text{cm} = \underline{\hspace{2cm}} \text{m}$

10. $1\text{km} = \underline{\hspace{2cm}} \text{m}$

11. $1\text{km} = \underline{\hspace{2cm}} \text{mm}^*$

12. $1\text{mm} = \underline{\hspace{2cm}} \text{km}$

13. $0.7\text{km} = \underline{\hspace{2cm}} \text{m}$

*Ako misliš da nema dovoljno mjesta, razmisli opet - KORISTI ZNANSTVENI ZAPIS!

Npr. $10^7 = 10\,000\,000$ (jedan sa sedam nula)

14. $4500\text{dm} = \underline{\hspace{2cm}}\text{km}$

15. $1\text{dag} = \underline{\hspace{2cm}}\text{g}$

16. $15\text{dag} = \underline{\hspace{2cm}}\text{kg}$

17. $1\text{kg} = \underline{\hspace{2cm}}\text{g}$

18. $250\text{g} = \underline{\hspace{2cm}}\text{kg}$

19. $15\text{t} = \underline{\hspace{2cm}}\text{g}^\dagger$

20. $25\text{g} \underline{\hspace{2cm}}\text{t}$

21. $1\text{L} = \underline{\hspace{2cm}}\text{dL}$

22. $20\text{dL} = \underline{\hspace{2cm}}\text{L}$

23. $750\text{hL} = \underline{\hspace{2cm}}\text{dL}$

24. $1001\text{hPa} = \underline{\hspace{2cm}}\text{Pa}$

[†]Napomena: umjesto "megagram" Mg češće koristimo tonu $1\text{t} = 1000\text{kg} = 10^6\text{g}$

2 Površina i volumen

1. $1\text{m}^2 = \text{_____ dm}^2$

2. $20\text{cm}^2 = \text{_____ m}^2$

3. $1.5\text{m}^2 = \text{_____ cm}^2$

4. $0.05\text{km}^2 = \text{_____ m}^2$

5. $500\text{ha} = \text{_____ km}^{2\dagger}$

6. $30\text{mm}^2 = \text{_____ cm}^2$

7. $1\text{m}^3 = \text{_____ dm}^3$

8. $15\text{dm}^3 = \text{_____ m}^3$

9. $5\text{m}^3 = \text{_____ cm}^3$

10. $10\text{cm}^3 = \text{_____ m}^3$

11. $10\text{L} = \text{_____ dm}^{3§}$

12. $15\text{L} = \text{_____ m}^3$

13. $750\text{mL} = \text{_____ cm}^3$

[†]Napomena: 1 ha [hektar] je površina kvadrata stranica duljine $100\text{m} \times 100\text{m}$ ($1\text{hm} \times 1\text{hm}$)

[§]1L je definirana kao 1dm^3

3 Gustoća

1. $1 \frac{\text{kg}}{\text{m}^3} = \text{---} \frac{\text{g}}{\text{cm}^3}$

2. $350 \frac{\text{g}}{\text{cm}^3} = \text{---} \frac{\text{kg}}{\text{m}^3}$

3. $2 \frac{\text{t}}{\text{m}^3} = \text{---} \frac{\text{g}}{\text{dm}^3}$

4. Ako znaš da 2.5m^3 bakra imaju masu 22300kg , kolika je gustoća bakra u kg/m^3 a kolika u g/cm^3 ?

5. Wolfram (tungsten) ima gustoću $19.254 \text{ g}/\text{cm}^3$. Kolika je masa 2dm^3 (=boca od 2 litre) wolframa?

6. Što je teže, 3m^3 vode ili 1m^3 aluminija?

7. Gustoća žive je $13.5\text{g}/\text{cm}^3$. Ako da 3cm^3 željeza teže 23.7g , hoće li željezo potonuti u živi?