

Znanstveni zapis realnog broja

1. Prikaži brojeve u **decimalnom zapisu**:

$3.245 \cdot 10^2 = \underline{\hspace{2cm}}$

$-1.24 \cdot 10^3 = \underline{\hspace{2cm}}$

$-2.03 \cdot 10^{-5} = \underline{\hspace{2cm}}$

$3.53 \cdot 10^{-6} = \underline{\hspace{2cm}}$

$7.962 \cdot 10^{-5} = \underline{\hspace{2cm}}$

$2.41 \cdot 10^0 = \underline{\hspace{2cm}}$

2. Brojeve zapiši u **znanstvenom zapisu**:

$603.7 = \underline{\hspace{1cm}} \cdot 10$

$0.0005632 = \underline{\hspace{1cm}} \cdot 10$

$146.447 = \underline{\hspace{1cm}} \cdot 10$

$0.000104774 = \underline{\hspace{1cm}} \cdot 10$

$9.69753 = \underline{\hspace{1cm}} \cdot 10$

$52595.6 = \underline{\hspace{1cm}} \cdot 10$

Računske operacije s potencijama

1. Izračunaj

$7 \cdot 6^{-3} - 12 \cdot 6^{-3} = \underline{\hspace{2cm}} \cdot \underline{\hspace{2cm}}$

$3.5a^4 - 0.7a^4 + 4.8a^4 = \underline{\hspace{2cm}}$

2. Potencije jednakih baza **množimo** tako da bazu , a eksponente .

3. Izračunaj:

$5^{-7} \cdot 5^4 = \underline{\hspace{2cm}}$

$3ab^3 \cdot (-4a^2b^2) = \underline{\hspace{2cm}}$

$3a^{12} \cdot a^6 - 4a^{15} \cdot a^3 - 10a^2 \cdot a^{16} = \underline{\hspace{2cm}}$

4. Potencije jednakih baza **dijelimo** tako da bazu , a eksponente .

5. Izračunaj:

$5^{-7} : 5^{-2} = \underline{\hspace{2cm}} \cdot \underline{\hspace{2cm}}$

$\frac{a^3b^8}{3a^2b^2} : \frac{ab^5}{6} = \underline{\hspace{2cm}}$

6. Potenciju **potenciramo** tako da bazu , a eksponente .

7. Izračunaj:

$(a^7)^8 = \underline{\hspace{2cm}}$

$3(x^6)^3 - 5(x^2)^9 = \underline{\hspace{2cm}}$

$(8^{-12} : 32^{-5})^3 = \underline{\hspace{2cm}}$