**UTRJUJEMO POTENCE**

1. **Dane zmnožke zapiši v obliki potence.**

3 ∙ 3 ∙ 3 = \_\_\_\_\_\_ 5 ∙ 5 ∙ 5 ∙ 5 ∙ 5 = \_\_\_\_\_ 8 ∙ 8 ∙ 8 ∙8 = \_\_\_\_\_

7 ∙ 7 ∙ 7 ∙ 7 = \_\_\_\_\_ 9 ∙ 9 ∙ 9 ∙ 9 ∙ 9 ∙ 9 = \_\_\_\_\_ 6 ∙ 6 = \_\_\_\_\_

1. **Potence zapiši kot zmnožek enakih faktorjev.**

 $4^{3}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $5^{4}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 $2^{7}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $10^{6}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 $3^{5}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $7^{8}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Potence zapiši kot zmnožek enakih faktorjev in izračunaj njihovo vrednost.**

 $3^{4}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $4^{3}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 $9^{2}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $2^{7}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 $7^{4 }$= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $5^{5}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Napiši 5 potenc z osnovo 4 in različno stopnjo.**

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1. **Napiši 5 potenc s stopnjo 3 in različno osnovo.**

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1. **Kaj je več:** $2^{6}$ **ali** $6^{2}$**,** $4^{3}$ **ali** $3^{4}$**.**

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1. **Dopolni tabelo.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **potenca** | **zapis enakih faktorjev** | **osnova** | **stopnja** | **vrednost potence** |
|  $6^{2}$ |  |  |  |  |
|  |  | 4 | 2 |  |
| $$5^{3}$$ |  |  |  |  |
|  |  | 5 |  | 25 |
|  |  | 10 | 3 |  |
| $$2^{3}$$ |  |  |   | 8 |
|  $9^{1}$ |  |  |  |  |
|  |  | 7 | 4 |  |
|  | 10 ∙ 10 ∙ 10 |  |  |  |

1. **Zapiši naslednja števila kot potence.**

16 = 2 ∙ 2∙ 2 ∙ 2 = $2^{4}$ 81 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

16 = 4 ∙ 4 = $4^{2}$ 10 000 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

27 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 125 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

49 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 729 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Uredi števila po velikosti. Začni z največjim.**

 $10^{3}$, $2^{4}$, $3^{3}$, $7^{4}$, $5^{3}$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Izračunaj.**

7 + $2^{3}$ = \_\_\_\_\_\_\_\_\_\_ $2^{4}$ + $3^{3}$ = \_\_\_\_\_\_\_\_\_\_ $6^{3}$ – 20 = \_\_\_\_\_\_\_\_\_

1. V naselju je pet blokov. Vsak ima pet nadstropij. V vsakem nadstropju je pet stanovanj, v vsakem stanovanju je pet članov družine. Koliko ljudi je v vseh stanovanjih?

Račun:

Odgovor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. V šestih hlevih je po šest prašičev. Vsak je imel šest mladičev. Koliko mladičev je v vseh hlevih? Koliko nog imajo vsi mladiči?

Račun:

Odgovor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_