

Izrazi, potence- TEST

Ime in priimek.....Točk.....Ocena.....

KRITERIJ: 51-46 odl(5);45.5-38.5 pd(4); 38-31 db(3);30.5-24 zd(2);23.5-0 nzd(1)

1. Izračunaj:

a) $11 - 12 : 4 =$

b) $(7 - 9) \cdot (-3) =$

c) $(-7) + 15 : 3 =$

č) $32 : (-4) + 6 \cdot (-3) - 4 \cdot (+3) =$

d) $-4,2 \cdot (4,3 - 6) - 3,3 \cdot (-2,6) =$

e) $\left(-\frac{3}{7}\right) \cdot \frac{10}{8} \cdot \left(-\frac{14}{15}\right) + \frac{1}{3} \cdot (-3) =$

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2. Izračunaj

a) $2^4 =$

b) $(-2)^3 =$

c) $(-3)^3 =$

č) $-2^6 =$

d) $(-10)^3 =$

e) $(-1)^7 =$

f) $20^0 =$

g) $(-1,2)^2 =$

h) $1700^2 =$

$$\text{i) } \left(\frac{2}{5}\right)^3 =$$

$$\text{j) } (-0,11)^2 =$$

$$\text{k) } \left(-2\frac{1}{4}\right)^2 =$$

$$\text{l) } 2^{-5} =$$

$$\text{m) } (0,8)^{-2} =$$

$$\text{n) } \left(\frac{7}{6}\right)^{-1} =$$

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3. Zapiši s potenco:

$$\text{a) } 2 \cdot 2 \cdot 2 =$$

$$\text{b) } u^3 \cdot u^8 =$$

$$\text{c) } 6^7 : 6^4 =$$

$$\text{č) } \frac{y^8}{y^3} \cdot y^8 : y =$$

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4. Preoblikuj in izračunaj:

$$\text{a) } 5^3 \cdot 2^3 =$$

$$\text{b) } (-2)^3 \cdot 4^3 =$$

$$\text{c) } \frac{18^4}{9^4} =$$

$$\text{d) } \frac{44^5}{(-22)^5} =$$

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5. Rezultat zapiši v obliki potence:

a) $10^5 \cdot 10^{-8} =$

b) $7^{-8} : 7^{-3} =$

c) $\frac{x^7}{x^3} \cdot \frac{x^5}{x^6} =$

d) $\frac{a^4}{b^3} \cdot \frac{b^5}{a^2} =$

 /4

6. Spretno izračunaj:

a) $\frac{0,1^2}{0,01^2} =$

b) $\frac{4 \cdot 16^2}{2^3 \cdot 2^5} =$

c) $\frac{144^2}{2^3 \cdot 6^3} =$

 /6

8. Izračunaj:

a) $-3 \cdot 4^2 =$

b) $3^4 - 2^7 =$

c) $0,1^3 - 1^3 =$

d) $(5^2 - 13)^2 + 5^0 =$

e) $-\left(-1\frac{1}{3}\right)^2 : \left(-\frac{2}{5}\right)^2 =$

f) $\left(-\frac{2}{3}\right)^2 : \left(-\frac{4}{9}\right) + (3^2 - 2^3)^5 - (-2)^3 =$

g) $3^{-2} - 3^{-1} - 3^0 + 3^1 + 3^2 =$

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9. Poenostavi: /3

a) $(-4^2 a^3 b)^3 =$

c) $\left(-\frac{2x^2 y}{z^3}\right)^3 =$

d) $\left(3 \cdot \frac{1}{3^0} - \left(\frac{1}{5}\right)^0\right) \cdot 5^0 =$

10. Izračunaj

$$(-3)^3 + (-2)^5 + 4 \cdot \left(-\frac{1}{4}\right)^2 - \left(12 \cdot \frac{3}{4} - 1\right)^2 =$$

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