

## 1. Izračunaj vrednost izrazov!

a)  $3a + 2b - (2a - (b + 3a) + 2b - a) =$

b)  $\frac{3}{4} - \left(\frac{1}{2} - \frac{2}{3}\right) - \left(\frac{5}{6} - 3\right) =$

$$= \frac{3}{4} - \frac{1}{2} + \frac{2}{3} - \frac{5}{6} + 3$$

$$= \frac{9}{12} + \frac{8}{12} + 3 - \frac{1}{2} - \frac{5}{6} =$$

$$= 4\frac{5}{12} - \frac{6}{12} - \frac{10}{12} = 3\frac{17}{12} - \frac{16}{12} =$$

č)  $(-0,32) : (-0,04) =$

$$+ (32 : 4) = +8$$

$$3\frac{1}{12}$$

c)  $-\frac{4}{9} \cdot (-27) =$

$$+ \frac{4 \cdot 27}{9} = 12$$

d)  $(-12) : \left(\frac{4-20}{14-6}\right) =$

$$(-12) : \left(\frac{-16}{8}\right) =$$

$$(-12) : (-2) =$$
  
$$+6$$

e)  $1\frac{1}{4} + \frac{3}{4} : \left(-\frac{3}{20}\right) =$

$$1\frac{1}{4} - \frac{3 \cdot 20}{4 \cdot 8} =$$

$$1\frac{1}{4} - 5 = -3\frac{3}{4}$$

## 2. Izračunaj vrednosti potenc (uporabi pravila)!

a)  $-3^2 = -9$

b)  $(-2)^3 = -8$

c)  $(-1)^{2025} = -1$

č)  $3^{-2} = \frac{1}{9}$

d)  $70^2 =$

$$4900$$

e)  $0,02^2 =$

$$0,0004$$

f)  $-0,1^4 =$

$$-0,0001$$

g)  $(1\frac{1}{3})^2 =$

$$\frac{16}{9}$$

## 3. Zapiši z eno potenco in izračunaj vrednost!

a)  $4^7 : 4^3 = 4^4 = 256$

b)  $9^3 : 9^1 = 9^2 = 81$

c)  $2^7 : 2^{10} = 2^{-3} = \left(\frac{1}{2}\right)^3 =$

$$\frac{1}{8}$$

## 4. Izračunaj vrednost izraza!

$$\frac{3^2 \cdot 3 \cdot 3^6}{3^3 \cdot 3^4} = \frac{3^9}{3^7} = 3^{9-7} = 3^2 = 9$$