Vārds: _____

PAKĀPJU ĪPAŠĪBAS

1. Vienkāršo!

a) $(5^3)^7 =$

b) $(8^2)^6 =$

c) $((-4)^7)^2 =$

d) $(18^3)^0 = \quad =$

e) $(1{,}7^0)^7 = \quad =$

f) $(-2^5)^3 =$

2. Kāpini pakāpi!

a) $(a^3)^4 =$

b) $(b^6)^3 =$

c) $(m^2)^7 =$

d) $((-m)^3)^3 =$

e) $((-n)^7)^2 =$

f) $((-z)^4)^5 =$

3. Kāpini reizinājumu!

a) $(3a)^4 =$

b) $(2d)^3 =$

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

d) $(-3y)^2 =$

e) $(m \cdot n)^5 =$

f) $(xy)^7 =$

g) $(5xy)^2 =$

h) $(4ab)^3 =$

4. Aprēķini!

a) $2^5 \cdot 0{,}5^5 = \quad =$

b) $0{,}2^4 \cdot 5^4 = \quad =$

c) $4{,}5^2 \cdot 2^2 = \quad =$

5. Kāpini daļu!

a) $\left(\frac{2}{3}\right)^3 = \text{—} = -$

b) $\left(\frac{7}{10}\right)^2 = \text{—} = -$

c) $\left(\frac{3}{5}\right)^3 = \text{—} = -$

d) $\left(-\frac{3}{x}\right)^2 = \text{—} = \text{—}$

e) $\left(-\frac{2}{k}\right)^3 = \text{—} = \text{—}$

Pakāpju īpašības
$a^0 = 1$ un $a^1 = a$

1. $a^m \cdot a^n = a^{m+n}$
2. $a^m : a^n = a^{m-n}$
3. $(a^m)^n = a^{m \cdot n}$
4. $a^n \cdot b^n = (a \cdot b)^n$
5. $(a \cdot b)^n = a^n \cdot b^n$
6. $\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$
7. $\frac{a^m}{b^m} = \left(\frac{a}{b}\right)^m$