

**Potenser och prioriteringsregler**

1 a)  $3^3 - 5^2 =$  \_\_\_\_\_

b)  $10^2 + 10^3 =$  \_\_\_\_\_

c)  $(8 + 2)^2 =$  \_\_\_\_\_

d)  $(3 \cdot 2)^2 =$  \_\_\_\_\_

2 a)  $(12 - 4)^2 =$  \_\_\_\_\_

b)  $(2 \cdot 0,5)^2 =$  \_\_\_\_\_

c)  $\frac{2^2 \cdot 3^2}{10^2} = \frac{\quad + \quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

d)  $\frac{3^2 + 2^3}{10^1} = \frac{\quad + \quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

3 a)  $1 + 0,4^2 =$  \_\_\_\_\_

b)  $(1 - 0,3)^2 =$  \_\_\_\_\_

c)  $\left(\frac{1}{2}\right)^3 = \frac{\quad}{\quad} \cdot \frac{\quad}{\quad} \cdot \frac{\quad}{\quad} = \frac{\quad}{\quad}$

d)  $\left(\frac{1}{3}\right)^2 = \frac{\quad}{\quad} \cdot \frac{\quad}{\quad} = \frac{\quad}{\quad}$

4 a)  $(1 + 3)^2 - 3^2 =$  \_\_\_\_\_

b)  $2 \cdot (4 + 1)^2 =$  \_\_\_\_\_

c)  $(5 - 2)^2 \cdot 2 =$  \_\_\_\_\_

d)  $5^3 - (1 + 1)^3 =$  \_\_\_\_\_

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**FACIT**

- 1 a) 2  
b) 1 100  
c) 100  
d) 36
- 2 a) 64  
b) 1  
c) 0,36  
d) 1,7
- 3 a) 1,16  
b) 0,49  
c)  $\frac{1}{8}$   
d)  $\frac{1}{9}$
- 4 a) 7  
b) 50  
c) 18  
d) 117