

Questions

1. Evaluate 3^3 .
2. Evaluate $\left(\frac{2}{5}\right)^3$.
3. Evaluate $(-16)^2$.
4. Evaluate -16^2 .
5. Evaluate $2^5 - (-3)^2$.
6. Evaluate $(-4)^3(-3)^2$.

Solutions

1. $3^3 = (3)(3)(3) = 27$.
2. $\left(\frac{2}{5}\right)^3 = \left(\frac{2}{5}\right)\left(\frac{2}{5}\right)\left(\frac{2}{5}\right) = \frac{2 \times 2 \times 2}{5 \times 5 \times 5} = \frac{8}{125}$.
3. $(-16)^2 = (-16)(-16) = (16)(16) = 256$.
4. $-16^2 = -(16)(16) = -256$.
5. $2^5 - (-3)^2 = (2)(2)(2)(2)(2) - (-3)(-3) = 32 - (3)(3) = 32 - 9 = 23$.
6. $(-4)^3(-3)^2 = (-4)(-4)(-4)(-3)(-3) = -(4)(4)(4)(3)(3) = -576$.