Exponents & Powers · Grade 8

Name _____ Date _____ Score _____ / 12

01 $5^{?} = 125$ ____

02 7^{3} = ____

03 Write as one power: $9^{5} \times 9^{3}$

____

04 Write as one power: $9^{6} \times 9^{6}$

____

05 As a power: 2×2 ____

06 $3^{4} \circ 9^{2}$ ____

07 $4^{?} = 256$ ____

08 $10^{6} \div 10^{2}$ = ____

09 $4^{1} \times 4^{3}$ = ____

10 17^{0} = ____

11 A cube-shaped box has edges 8 cm long. What is its volume?

Answer: _____

12 A bacteria colony doubles every hour. It starts as 1 cell. How many cells are there after 9 hours?

Answer: _____

Exponents & Powers · Grade 8 (Answer Key)

01 $5^{?} = 125$ **3**

02 $7^{3} =$ **343**

03 Write as one power: $9^{5} \times 9^{3}$ 9^{8}

04 Write as one power: $9^{6} \times 9^{6}$ 9^{12}

05 As a power: 2×2 2^{2}

06 $3^{4} \circ 9^{2} =$

07 $4^{?} = 256$ **4**

08 $10^{6} \div 10^{2} =$ **10000**

09 $4^{1} \times 4^{3} =$ **256**

10 $17^{0} =$ **1**

11 A cube-shaped box has edges 8 cm long. What is its volume?

512 cm³

12 A bacteria colony doubles every hour. It starts as 1 cell. How many cells are there after 9 hours?

512 cells