Exponents & Powers · Grade 8

Name _____ Date _____ Score _____ / 12

01 $(3^3)^2 \div 3^3 =$ ____

02 $2^2 \times 2^2 =$ ____

03 $?^2 = 100$ ____

04 $2^{-3} =$ ____

05 $10^4 \times 10^1 =$ ____

06 $3^{-2} =$ ____

07 Write as one power: $12^5 \times 12^6$

____

08 Write as one power: $8^3 \div 8^5$

____

09 $6^3 \circ 10^4$ ____

10 $3^4 \div 3^1 =$ ____

11 You fold a sheet of paper in half 8 times. How many layers thick is it?

Answer: _____

12 A cube-shaped box has edges 10 cm long. What is its volume?

Answer: _____

Exponents & Powers · Grade 8 (Answer Key)

01 $(3^3)^2 \div 3^3 =$ **27**

02 $2^2 \times 2^2 =$ **16**

03 $?^2 = 100$ **10**

04 $2^{-3} =$ $\frac{1}{8}$

05 $10^4 \times 10^1 =$ **100000**

06 $3^{-2} =$ $\frac{1}{9}$

07 Write as one power: $12^5 \times 12^6$

12^{11}

08 Write as one power: $8^3 \div 8^5$ 8^{-2}

09 $6^3 \circ 10^4$ **<**

10 $3^4 \div 3^1 =$ **27**

11 You fold a sheet of paper in half 8 times. How many layers thick is it?

256 layers

12 A cube-shaped box has edges 10 cm long. What is its volume?

1000 cm³