Exponents & Powers · Grade 9

Name _____ Date _____ Score _____ / 12

01 $6^{1} \times 6^{3} =$ ____

02 As a power: $10 \times 10 \times 10$ ____

03 $12^{2} \times 12^{1} =$ ____

04 $20^{0} =$ ____

05 $(3^{4} \times 3^{3}) \div 3^{9} =$ ____

06 $11^{2} =$ ____

07 $4^{3} =$ ____

08 $11^{?} = 161051$ ____

09 $8^{-2} =$ ____

10 $(6^{3})^{2} =$ ____

11 A cube-shaped box has edges 3 cm long. What is its volume?

Answer: _____

12 A square tile is 5 cm on each side. What is its area?

Answer: _____

Exponents & Powers · Grade 9 (Answer Key)

01 $6^{1} \times 6^{3} =$ **1296**

02 As a power: $10 \times 10 \times 10$ **10^{3}**

03 $12^{2} \times 12^{1} =$ **1728**

04 $20^{0} =$ **1**

05 $(3^{4} \times 3^{3}) \div 3^{9} =$ **$\frac{1}{9}$**

06 $11^{2} =$ **121**

07 $4^{3} =$ **64**

08 $11^{?} = 161051$ **5**

09 $8^{-2} =$ **$\frac{1}{64}$**

10 $(6^{3})^{2} =$ **46656**

11 A cube-shaped box has edges 3 cm long. What is its volume?

27 cm³

12 A square tile is 5 cm on each side. What is its area?

25 cm²