Exponents & Powers · Grade 9

Name _____ Date _____ Score _____ / 12

01 $9^1 \times 9^1 =$ ____

02 Write as one power: $(5^4)^3$ ____

03 $2^3 \circ 10^4$ ____

04 $8^4 =$ ____

05 As a power: 3×3 ____

06 $(6^2)^3 =$ ____

07 Write as one power: $6^2 \div 6^9$

____

08 $7^3 =$ ____

09 Write as one power: $6^8 \div 6^3$

____

10 $2^5 \div 2^1 =$ ____

11 You fold a sheet of paper in half 7 times. How many layers thick is it?

Answer: _____

12 In a phone tree, each person calls 3 new people. Round 1 is 3 calls. How many calls are made in round 2?

Answer: _____

Exponents & Powers · Grade 9 (Answer Key)

01 $9^{1} \times 9^{1} =$ **81**

02 Write as one power: $(5^{4})^{3}$ 5^{12}

03 $2^{3} \circ 10^{4}$ **<**

04 $8^{4} =$ **4096**

05 As a power: 3×3 3^{2}

06 $(6^{2})^{3} =$ **46656**

07 Write as one power: $6^{2} \div 6^{9}$ 6^{-7}

08 $7^{3} =$ **343**

09 Write as one power: $6^{8} \div 6^{3}$ 6^{5}

10 $2^{5} \div 2^{1} =$ **16**

11 You fold a sheet of paper in half 7 times. How many layers thick is it?

128 layers

12 In a phone tree, each person calls 3 new people. Round 1 is 3 calls. How many calls are made in round 2?

9 calls