## Intro to Exponents

|  | Label the parts of this expression. | 2 Fill in the blanks. <br> If a number is "squared" that means it is raised to the $\qquad$ 2nd power. <br> If a number is "cubed" that means it is raised to the 3rd $\qquad$ power. |
| :---: | :---: | :---: |
|  | Re-write this repeated multiplication in exponent form. $\begin{gathered} 7 \times 7 \times 7 \times 7 \\ 7^{4} \end{gathered}$ | 4. Re-write this repeated multiplication in exponent form. $\begin{gathered} 2 \times 2 \times 2 \times 2 \times 2 \times 2 \\ 2^{6} \end{gathered}$ |
|  | Calculate these "squares". (Hint: Use your multiplication table.) $\begin{array}{ll} \mathbf{6}^{2}=36 & 7^{2}=49 \\ \mathbf{9}^{2}=81 & \mathbf{1 2}^{2}=144 \end{array}$ | Calculate this exponent. $3^{3}=3 \times 3 \times 3=27$ |
|  | Calculate this exponent. $14^{2}=14 \times 14=196$ | 8 Calculate this exponent. $\begin{gathered} 10^{4}=10 \times 10 \times 10 \times 10 \\ =10,000 \end{gathered}$ |
| 9 | Use the exponent button ( $x^{y}$ ) on a calculator to find the value of this exponent. $2^{10}=1,024$ | Use the exponent button ( $x^{y}$ ) on a calculator to find the value of this exponent. $5^{7}=78,125$ |
| mathantics.com © ${ }^{\text {a }}$ ( $\begin{aligned} & \text { See Video for step-by-step Math Plus Motion, LLC } \\ & \text { solutions to each problem. }\end{aligned}$ |  |  |

