

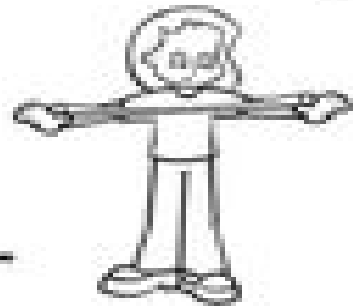
Name: _____

Date: _____

A **power** is the product of multiplying a number by itself. It is represented as a **base number** and an **exponent**. The **base number** indicates what number is being multiplied, and the **exponent** indicates how many times the base number is to be multiplied.

$$10^5 = 10 \times 10 \times 10 \times 10 \times 10 = 100,000$$

↖ exponent
↘ factors



Write the factors, then find the value.

A. $5^2 =$ $7^2 =$ $9^2 =$ $3^2 =$ $2^2 =$
 $5 \times 5 = 25$

B. $10^2 =$ $10^3 =$ $5^3 =$ $6^2 =$ $3^3 =$

Write the value.

C. $7^2 = 49$ $9^2 =$ $4^2 =$ $2^2 =$ $1^2 =$

D. $8^2 =$ $3^2 =$ $2^3 =$ $3^3 =$ $8^3 =$

Write the value using exponents.

E. $5 \times 5 \times 5 \times 5 \times 5 =$ $10 \times 10 \times 10 \times 10 =$ $6 \times 6 \times 6 \times 6 =$ $2 \times 2 =$
 F. $4 \times 4 \times 4 \times 4 =$ $7 \times 7 \times 7 =$ $2 \times 2 \times 2 \times 2 \times 2 =$ $3 \times 3 \times 3 =$
 G. $10 \times 10 \times 10 =$ $5 \times 5 =$ $8 \times 8 \times 8 =$ $10 \times 10 =$

Fill in the missing numbers.

	Product	Number to Given Power	Standard Notation
H.	$8 \times 8 \times 8$	8^{\quad}	512
I.	5×5		
J.	$13 \times 13 \times 13$		
K.	$2 \times 2 \times 2 \times 2 \times 2$		