

Exponents as Squares

Whenever you use 2 as an exponent, you are multiplying a number by itself just one time.

ANSWERS

Example: $5 \times 5 = 5^2$

Remember, you can write this in words as “five to the power of two” or “five to the second power.” You can also write it another way:

Five squared

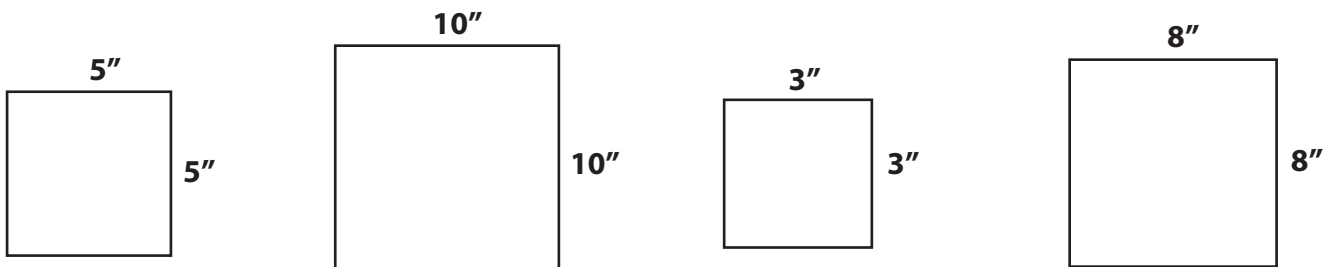
How Are Squares Related to Exponents?

When you “square” a number, you are multiplying it by itself. This is the same formula for finding the area of a square.

Let's Practice!

Part 1

Record the answers for each problem on their answer lines.



Multiplication
Expression: 5×5

Multiplication
Expression: 10×10

Multiplication
Expression: 3×3

Multiplication
Expression: 8×8

Exponent
Expression: 5^2

Exponent
Expression: 10^2

Exponent
Expression: 3^2

Exponent
Expression: 8^2

Value: 25

Value: 100

Value: 9

Value: 64

Part 2

Change the written form to its exponent form.

1. Ten squared 10^2

2. Fourteen squared 14^2

3. Three hundred and fifty-six squared 356^2

4. twelve squared 12^2