## Perfect Squares

When you're doing math -- especially in Algebra, you'll want to be able to know some important exponents by memory!
$1^{2}=$ $\qquad$
$2^{2}=$
$7^{2}=$

$$
13^{2}=
$$

$\qquad$
$8^{2}=$
$14^{2}=$ $\qquad$
$3^{2}=$
$9^{2}=$
$15^{2}=$ $\qquad$
$4^{2}=$
$10^{2}=$ $\qquad$ $16^{2}=$ $\qquad$
$5^{2}=$
$11^{2}=$
$17^{2}=$ $\qquad$
$6^{2}=$
$12^{2}=$ $\qquad$
$18^{2}=$ $\qquad$

Some of these are from your times tables... So, you should already know them!

Why are they called "perfect squares" (or just "squares")?
Because they are the area of a square!

area:
$3^{2}=9$


5 area:
$5^{2}=25$

## Perfect Cubes

$$
\begin{gathered}
1^{3}=\frac{2^{3}=}{4^{3}=} \quad 3^{3}= \\
\end{gathered}
$$

I'll bet you can guess why these are called "cubes!"
Yep, they are the volumes of cubes!

volume:
$3^{3}=27$


5
volume:
$5^{3}=125$

