## pp. 64-65 Radicals

p. 64 PERFECT SQUARES

Complete the following:
$1^{2}=1$
$2^{2}=4$
$3^{2}=9$
$4^{2}=16$
$5^{2}=25$
$6^{2}=36$

$$
\begin{aligned}
& 7^{2}=49 \\
& 8^{2}=64 \\
& 9^{2}=81 \\
& 10^{2}=100 \\
& 11^{2}=121 \\
& 12^{2}=144
\end{aligned}
$$



Simplifying Radical Expressions

Radical Expression: an expression that contains a square root.

Radicand: the number beneath the radical sign

> radical sign
> coefficient $\rightarrow 2 \sqrt{5}-$ radicand


1) Write the factors of the radicand.
2) Circle pairs (perfect squares).
3) Write the circle number outside of the radical sign.
(The rest stays under as a product.)
4) Multiply by the coefficient.

5) $\sqrt{-72}$


