## Simplifying Radicals

## Procedure:

1. Rewrite the radicand as a product of a perfect square and some other number.
2. Take the square root of the perfect square.
3. Leave the other number in the radical.

$$
\text { Example: } \quad \begin{aligned}
& \text { Simplify } \sqrt{80} \\
& \sqrt{80}=\sqrt{16 \times 5} \\
&=4 \sqrt{5} .
\end{aligned}
$$

\[

\]

Simplify.

1. $\sqrt{81}$
2. $\sqrt{40}$
3. $\sqrt{99}$
4. $\sqrt{49}$
5. $\sqrt{75}$
6. $\sqrt{64}$
7. $\sqrt{180}$
8. $\sqrt{100}$
9. $\sqrt{81}$
10. $\sqrt{112}$
11. $\sqrt{36}$
12. $\sqrt{128}$
13. $\sqrt{700}$
14. $\sqrt{243}$
15. $\sqrt{294}$
bill@hanlonmath.com
