

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

## Simplifying Radicals Worksheet

Simplify

①  $\sqrt{80s^3}$

②  $\sqrt{16v^3u^4}$

③  $\sqrt[4]{128x^7y^7}$

④  $\sqrt[5]{224r^7}$

⑤  $2mn^2\sqrt[3]{5mn^2}$

⑥  $\sqrt{36x^2y^6}$

⑦  $\sqrt{a} \sqrt[4]{a^3}$

⑧  $\sqrt[3]{s^2t^4} \cdot \sqrt[3]{s^4t^6}$

⑨  $\frac{8\sqrt{3}}{\sqrt{k}}$

⑩  $\frac{\sqrt{7}-\sqrt{5}}{\sqrt{5}-\sqrt{7}}$

⑪  $(\sqrt{2a}-5)(7\sqrt{2a}-5)$

⑫  $4\sqrt[6]{3} + 2\sqrt[4]{32} - 3\sqrt[6]{192} - 2\sqrt[6]{192}$