9-3 Simplifying Radical Expressions

Name: _____   Time› Start: _____   Finish: _____   Total Time = _____

Simplify the radical. Put your answer in the blank to the left of the question.

_____   1. $\sqrt{20}$

_____   2. $\sqrt{40a^3}$

_____   3. $\sqrt{12a^4}$

_____   4. $\sqrt{a^5 b^6}$

_____   5. $\sqrt{a^4 b^5 c^2}$

_____   6. $\sqrt[3]{a^4 b^6}$

_____   7. $\sqrt[3]{a^7 b^{10}}$

_____   8. $\sqrt[3]{24}$

_____   9. $\sqrt[3]{48}$

_____   10. $\sqrt{128}$

_____   11. $\sqrt{42n^9}$

Circle each expression below that is in simplest radical form.

$x\sqrt{11y}$ $5\sqrt{x^3}$ $7x^2 y\sqrt{2xy}$ $\sqrt{12x^4 y^9}$ $64\sqrt{x}$ $xy\sqrt{xy}$ $4a^3\sqrt{10abc}$