

Check Your Understanding
Expressions: Radicals

Answer these problems, then check your answers using the key on the next page.

#1) Simplify as fully as possible: $\left(\frac{2^3\left(64^{\frac{1}{2}}\right)}{343}\right)^{-\frac{1}{3}}$

#2) Simplify as fully as possible: $\sqrt{48a^5b^{10}}$

#3) Simplify as fully as possible: $\frac{4}{3+\sqrt{8}}$

#4) Simplify as fully as possible: $4\sqrt{27} + 2\sqrt{72} - 6\sqrt{12}$

Answers:

#1) $\frac{7}{4}$

#2) $4a^2b^5\sqrt{3a}$

#3) $12-8\sqrt{2}$

#4) $12\sqrt{2}$