Check Your Understanding
Expressions: Exponents

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

#1) Simplify without using a calculator. If answers contain exponents, make sure they are positive.

$$\left(\frac{-9x^{-5}y^{-3}z^2}{3x^2y^{-5}z^0}\right)^{-3}$$

#2) Simplify without using a calculator. If answers contain exponents, make sure they are positive.

$$2^5 \cdot 4^{-3}$$

Answers:

#1) $\quad -\dfrac{x^{21}}{27y^6z^6}$

#2) $\quad \dfrac{1}{2}$