1. Simplify the following radicals.

a) $5\sqrt[3]{24} = 5\sqrt[3]{8}\sqrt[3]{3} = 5 \cdot 2\sqrt[3]{3} = 10\sqrt[3]{3}$

b) $2\sqrt[3]{54} = 2\sqrt[3]{27}\sqrt[3]{2} = 2 \cdot 3\sqrt[3]{2} = 6\sqrt[3]{2}$

c) $7\sqrt[3]{1000} = 7 \cdot 10 = 70$ Sometimes the simplified form is an integer!

d) $4\sqrt[4]{80} = 4\sqrt[4]{16}\sqrt[4]{5} = 4 \cdot 2\sqrt[4]{5} = 8\sqrt[4]{5}$

e) $3\sqrt[5]{320} = 3\sqrt[5]{32}\sqrt[5]{10} = 3 \cdot 2\sqrt[5]{10} = 6\sqrt[5]{10}$