




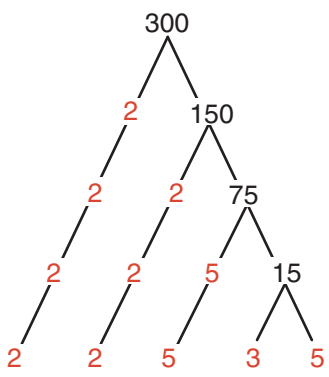
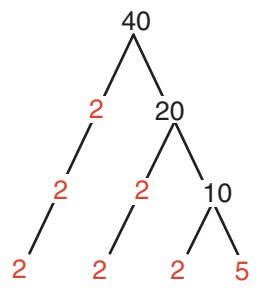
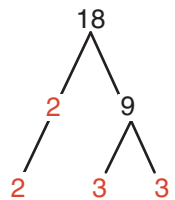
Check Up

Simplify the following, expressing each as an exact value.

Entire Radical	Show all steps	Mixed Radical
$\sqrt{300}$		
$\sqrt[3]{40}$		
$\sqrt{\frac{54}{3}}$		

 Compare your answers.

Simplify the following, expressing each as an exact value.

Entire Radical	Show all steps	Mixed Radical
$\sqrt{300}$	$\sqrt{300} = \sqrt{100 \times 3} = \sqrt{10^2 \times \sqrt{3}}$ <p>or</p>  $\sqrt{2 \times 2 \times 5 \times 5 \times 3} = \sqrt{2^2 \times 5^2 \times 3} = \sqrt{2^2} \times \sqrt{5^2} \times \sqrt{3} = 2 \times 5 \times \sqrt{3}$	$10\sqrt{3}$
$\sqrt[3]{40}$	$\sqrt[3]{40} = \sqrt[3]{8 \times 5} = \sqrt[3]{8} \times \sqrt[3]{5} = \sqrt[3]{2^3} \times \sqrt[3]{5}$ <p>or</p>  $\sqrt[3]{2 \times 2 \times 2 \times 5} = \sqrt[3]{2^3 \times 5} = \sqrt[3]{2^3} \times \sqrt[3]{5}$	$2\sqrt[3]{5}$
$\sqrt{\frac{54}{3}}$	$\sqrt{\frac{54}{3}} = \sqrt{18} = \sqrt{9 \times 2} = \sqrt{3^2 \times 2} = \sqrt{3^2} \times \sqrt{2}$ <p>or</p>  $\sqrt{3 \times 3 \times 2} = \sqrt{3^2 \times 2} = \sqrt{3^2} \times \sqrt{2}$	$3\sqrt{2}$