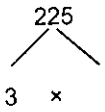
Practice

1. Use prime factorization to find each square root.

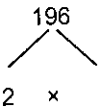
a) $\sqrt{225}$



225 = ____ × ____ × ____ × ____
= (____ × ____) × (____ × ____)
= ____ × ____

So, $\sqrt{225}$ = ____

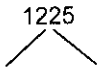
b) $\sqrt{196}$



196 = ____ × ____ × ____ × ____
= (____ × ____) × (____ × ____)
= ____ × ____

So, $\sqrt{196}$ = ____

c) $\sqrt{1225}$

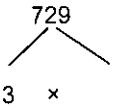


1225 = ____ × ____ × ____ × ____
= (_____) × (_____)
= ____ × ____

So, $\sqrt{1225}$ = ____

2. Use prime factorization to find each cube root.

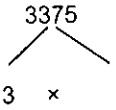
a) $\sqrt[3]{729}$



729 = ____ × ____ × ____ × ____ × ____ × ____
= (____ × ____) × (____ × ____) × (____ × ____)
= ____ × ____ × ____

So, $\sqrt[3]{729}$ = ____

b) $\sqrt[3]{3375}$



3375 = ____ × ____ × ____ × ____ × ____ × ____
= (____ × ____) × (____ × ____) × (____ × ____)
= ____ × ____ × ____

So, $\sqrt[3]{3375}$ = ____

