

Chapter 3 Review

3.1 1. a) Draw a factor tree for 250.



b) The prime factorization of 250 is:

2. Find the GCF of 20 and 45.

Factors of 20

$$20 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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Factors of 45

$$45 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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Factors of 20: _____

Factors of 45: _____

The GCF of 20 and 45 is _____.

3. Find the LCM of 16 and 20.

Multiples of 16: 16, _____

Multiples of 20: 20, _____

The LCM of 16 and 20 is _____.

3.2 4. Find $\sqrt{2025}$.



Use prime factorization.

$$\begin{aligned} 2025 &= \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \\ &= (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) \times (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) \\ &= \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \end{aligned}$$

$$\text{So, } \sqrt{2025} = \underline{\hspace{2cm}}$$

5. Find $\sqrt[3]{2744}$.



Use prime factorization.

$$\begin{aligned} 2744 &= \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \\ &= (\underline{\hspace{1cm}}) \times (\underline{\hspace{1cm}}) \times (\underline{\hspace{1cm}}) \\ &= \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \end{aligned}$$

$$\text{So, } \sqrt[3]{2744} = \underline{\hspace{2cm}}$$