

What is the Standard Form (Simplest Form) of a Rational Number?

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In the previous segment, we saw **Positive and Negative Rational Number**. In this segment, we shall see what is the Standard Form (Simplest Form) of a Rational Number.

What is the Standard Form of Rational Number?

The standard form of a rational number is defined as $\frac{p}{q}$ where p and q are the lowest possible integers and q is always positive.

Q. Reduce $\frac{4}{8}$ it to its standard form.

Solution:

Step 1: Find the Highest Common Factor (HCF) of numerator and denominator.

The HCF of 4 and 8 is 4.

Step 2: Divide the numerator and the denominator by HCF.

Divide the numerator and denominator by 4

$$\frac{\frac{4}{4}}{\frac{8}{4}} = \frac{1}{2}$$

$\frac{1}{2}$ is the standard form of $\frac{4}{8}$

$$\therefore \frac{4}{8} = \frac{1}{2}$$

Summary

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|---|--|
| Standard Form of Rational Number | <ul style="list-style-type: none"> • Find the Highest Common Factor (HCF) of numerator and denominator. • Divide the numerator and the denominator by HCF. |
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What's next?

In our next segment of Class 10 Maths, we will continue looking at examples for Standard Form (**Simplest Form**) of a Rational Number.

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