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Multiplying Fractions and Whole Numbers

Today's Standard

5.NF.B5b - Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence $a/b = (n \times a)/(n \times b)$ to the effect of multiplying a/b by 1.

Cues	Notes
What happens when you multiply by a fraction greater than 1?	Multiplying by a fraction greater than 1 results in a product greater than the original number.
What happens when you multiply by a fraction less than 1?	Multiplying by a fraction less than 1 results in a product smaller than the original number. Eraction equivalence means that a/b is the same as $(n \ge a)/(n \ge b)$
What is fraction equivalence?	Multiplying a fraction by 1 does not change its value.
How does multiplying by 1 affect a fraction?	

Summary

Understanding how multiplying by fractions greater or less than 1 affects the product is crucial. Fraction equivalence helps in simplifying and comparing fractions.