

Standard: Apply and extend previous understandings of multiplication to multiply a fraction by a whole number

Score 4.0	In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught. • Fluently multiplies fractions by whole numbers with high accuracy, including complex or less familiar problems, and applies advanced strategies. • Demonstrates a deep understanding of how multiplication of fractions by whole numbers works, using visual models, number lines, and multiple methods flexibly. • Explains and justifies their process thoroughly, providing detailed reasoning and connecting their solutions to broader mathematical concepts.	
	Score 3.5	In addition to score 3.0 performance, partial success as score 4.0 content
Score 3.0	A scoring of a 3 will achieve all of the following: • Correctly multiplies fractions by whole numbers in standard contexts. • Demonstrates a clear understanding of the basic process of multiplying a fraction by a whole number (e.g., multiplying the numerator by the whole number and keeping the denominator the same). • Can explain the basic methods used for multiplication, providing clear and accurate descriptions.	
	Score 2.5	No major errors or omissions regarding score 2.0 content and partial success at score 3.0 content
Score 2.0	A scoring of a 2 will achieve the following: • Shows some ability to multiply fractions by whole numbers but frequently makes errors or demonstrates incomplete understanding. • Struggles with applying strategies for multiplication and may need significant support to perform tasks correctly. • Provides minimal explanation of their methods, indicating a limited grasp of how to multiply fractions by whole numbers.	
	Score 1.5	No major errors or omissions regarding score 1.0 content and partial success at score 2.0 content
Score 1.0	A scoring of a 1 will achieve the following: • Shows significant difficulty with multiplying fractions by whole numbers and demonstrates minimal understanding of the processes. • Cannot accurately perform tasks even with assistance, showing severe gaps in understanding. • Provides no meaningful explanation of their methods or reasoning, indicating a lack of comprehension of fraction multiplication.	

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