



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 4 COURSE NAME: Math
MEASUREMENT TOPIC: Multiply a Whole Number by a Fraction

4	<p>In addition to Score 3, the student makes in-depth inferences and applications.</p> <ul style="list-style-type: none">• Analyze a word problem involving multiplication of a fraction. Determine the errors and show how to solve the problem correctly.
3	<ul style="list-style-type: none">• Solve word problems involving multiplying a whole number times a fraction using:<ul style="list-style-type: none">• visual fraction models and• equations to represent the problem• Apply and extend previous understanding of multiplication to multiply a whole number times any fraction less than one.• Model and explain how a non-unit fraction can be represented by a whole number times the unit fraction.
2	<ul style="list-style-type: none">• Make equal groups of fractions to find how many are in all.

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With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: unit fraction, numerator, denominator, equation, product, multiple, whole number, mixed number