



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 4 COURSE NAME: Math

MEASUREMENT TOPIC: Use Place Value and Properties of Operations to Divide Multi-Digit Whole Numbers

4	<p>In addition to Score 3, the student makes in-depth inferences and applications.</p> <ul style="list-style-type: none">• Identify and explain errors in a given strategy for dividing multi-digit dividends.
3	<ul style="list-style-type: none">• Use strategies based on place value, properties of operations, and/or the relationship between multiplication and division to find whole-number quotients and remainders with one-digit divisors and three- or four-digit dividends.<ul style="list-style-type: none">• Illustrate and explain using equations, rectangular arrays, and area models
2	<ul style="list-style-type: none">• Find whole number quotients, with one-digit divisors and two-digit dividends using strategies based on place value & properties of operations (area model and partial quotient).<ul style="list-style-type: none">• Illustrate and explain using equations, rectangular arrays, and area models• Compose and Decompose multi-digit whole number factors.• Subtract Multi-Digit Whole Numbers

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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: properties of operations, division, divisor, dividend, quotient, remainder, array, area model, compose, decompose, multiply, multiple, equation, greatest common multiple, unknown factor, partial quotient