Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 4th Grade COURSE NAME: Math
MEASUREMENT TOPIC: Use Place Value and Properties of Operations to Divide Multi-Digit Whole Numbers

4	In addition to Score 3.0, make in-depth inferences and applications. ☐ Identify and explain errors in a given strategy for dividing multi-digit dividends.
3	☐ **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 <u>one-digit divisors and four-digit dividends</u>.** ☐ **Illustrate and explain using equations, rectangular arrays, and area models** ☐ **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 <u>one-digit divisors and three-digit dividends</u>.** ☐ **Illustrate and explain using equations, rectangular arrays, and area models**
2	☐ Find whole number quotients, with <u>one-digit divisors and two-digit dividends</u> using strategies based on place value & properties of operations (area model and partial quotient). ☐ Illustrate and explain using equations, rectangular arrays, and area models
1	☐ 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, divisible, divisor, dividend, quotient, **remainder**, array, area model, compose, decompose, multiply, multiple, equation, **greatest multiple**, unknown factor, **partial quotient, inverse**