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| **NC.3.NBT.3**  **Earn That Bike** | |
| **Domain** | Number and Operations in Base Ten |
| **Cluster** | Generalize place value understanding for multi-digit numbers. |
| **Standard(s)** | **NC.3.NBT.3** Use concrete and pictorial models, based on place value and the properties of operations, to find the product of a one-digit whole number by a multiple of 10 in the range 10–90. |
| **Materials** | Paper, pencils, copy of problem |
| **Task** | Elana makes $30 every time she helps her aunt watch her baby on a Saturday. Elana wants to purchase a new bike with the money she earns. The new bike is $240.  How many weeks will she have to help her aunt to earn enough money to purchase a new bike?  Use words, pictures, or equations to show how she can figure out how long it will take. |

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| **Rubric** | | |
| **Level I**  Not Yet | 1. **Level II** 2. Progressing | **Level III**  Meets Expectation |
| * Student’s work is off-task, incomplete, or not accurate. | * Student states 8 weeks but can not explain work.   ***OR***   * Student has shown some justification of appropriate reasoning, but it does not lead to the correct answer. | * Student states that it will take 8 weeks. * Student accurately explains:   3 x X = 24 or  30 x X = 240 and that  3 x 8= 24 or  30 x 8 = 240   * Student explains how answer was computed in words, pictures or equations. |

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| **Standards for Mathematical Practice** |
| **1. Makes sense and perseveres in solving problems.** |
| 2. Reasons abstractly and quantitatively. |
| **3. Constructs viable arguments and critiques the reasoning of others.** |
| 4. Models with mathematics. |
| 5. Uses appropriate tools strategically. |
| 6. Attends to precision. |
| **7. Looks for and makes use of structure.** |
| 8. Looks for and expresses regularity in repeated reasoning. |

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