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| **Juice Boxes– 6.NS.3** |
| **Domain** | **The Number System** |
| **Cluster** | **Compute fluently with whole numbers and find common factors and multiples.** |
| **Standard(s)** | **6.NS.3** Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. |
| **Materials** | Activity sheet |
| **Task** | **Juice Boxes**Fruit punch juice boxes cost $0.35 per ounce, They come in boxes that are 8.5 ounces and 12.2 ounces each. Part 1:How much does each box cost?Part 2:The juice company pays 4 tenths of the cost of each juice box to make, package, and ship the juice. How much does it cost the company to make, package, and ship each of the different-sized boxes?Part 3:If the company sells 85 8.5 ounce boxes and 78 12.2 ounce boxes, how much profit did they make? Write an explanation about how you found the answer.  |

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| **Rubric** |
| **Level I** | 1. **Level II**
 | **Level III** |
| * Student uses inappropriate solution strategy and does not get the correct answer.
 | 1. Not Yet Proficient
* There are one or two errors.
 | Proficient in Performance * Accurately solves problem
* Part 1: $2.98 for the 8.5 ounce box. $4.27 for the 12.2 ounce box.
* Part 2: The company made the following profits: 8.5 ounce box: Four-tenths of $2.98 is $1.19. 12.2 ounce box: Four-tenths of $4.27 is $1.71.
* Part 3: For 85 8.5 ounce boxes: 85 \* $1.19 = $101.15. For 78 12.2 ounce boxes: 78\*$1.71 = $133.38. The explanation is clear and accurate.
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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. |

**Juice Boxes**

Fruit punch juice boxes cost $0.35 per ounce, They come in boxes that are 8.5 ounces and 12.2 ounces each.

Part 1:

How much does each box cost?

Part 2:
The juice company pays 4 tenths of the cost of each juice box to make, package, and ship the juice. The other 6 tenths of the cost of each box is profit. How much does it cost the company to make, package, and ship the two different-sized boxes?

Part 3:

If the company sells 85 8.5 ounce boxes and 78 12.2 ounce boxes, how much profit did they make? Write an explanation about how you found the answer.