

Day 15: Multi Digit Multiplication

Lesson Target:

- Solve and apply multiplication problems accurately.
- Understand the rules and strategies in the word problems.
- Investigate how to ensure the answer.
- Investigate how to solve 2 digit x 1 digit problems and 3 digit x 1 digit problems.
- Represent the equation with division sign and equal sign.
- Utilize the multiplication facts of 1 digit x 1 digit.

Process	Activities/Expected Students' responses	Teacher's Support
Understand the Goal (5 min)	How do you solve this problem: How many candies in all, are there in the box of 2 x 12?	
Explore/ Investigate/Solve (25 min)	Predict the answer with Prior Knowledge Investigate with Color tiles Discuss in the group S: I know $2 \times 10 = 20$ and $2 \times 2 = 4$. So you can add 20 and 4. The answer is 24 candies. S: How about $2 \times 6 = 12$? S: Yeah, it seems like we can divide 12 into 1 digit numbers. So we can use multiplication facts!	Provide Color tiles
Conclude (15 min)	Explain how many candies in all, are there in the box of 3 x 14?	Suggest to use <i>Multiplication Solution check list</i> (below)

Assessment:

- **Divide** a 2 digit number into two reasonable 1 digit numbers.
- **Use** multiplication facts.
- **Explain** their thinking clearly in their own words and in the picture.
- **Label** the answer.
- **Check** off the list in each step in *Multiplication Solution Check List* (below).

Multiplication Solution Check Sheet

Name: _____ Date: _____

___ Numbers of objects that I want to know are _____

___ Number of objects in one group are _____

___ Numbers of groups are _____

___ Multiplication Equation (fact) _____

___ Supporting Addition Equation _____

___ Picture

___ Labeled Answer _____

Multiplication Solution Check Sheet

Name: _____ Date: _____

___ Numbers of objects that I want to know are _____

___ Number of objects in one group are _____

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___ Multiplication Equation (fact) _____

___ Supporting Addition Equation _____

___ Picture

___ Labeled Answer _____