

# Math

## 2-Day Multiply Decimal by Decimal

### 5th Grade

#### State Standard(s):

5.NBT.5 Fluently, efficiently, accurately, and flexibly multiply multi-digit whole numbers using an efficient algorithm.  
5.NBT.7 Multiply decimals to hundredths

**Student Learning Objective(s):** TSWBAT multiply decimal numbers by a decimal number.

#### Materials:

- [Multiplying Decimals Video](#)
  - [https://learnzillion.com/lesson\\_plans/8152-multiply-decimals/](https://learnzillion.com/lesson_plans/8152-multiply-decimals/)
- Page [123](#)
  - <https://drive.google.com/file/d/1DaicxZlxTS4lAT8aW4LIqengVylmLG64/view?usp=sharing>
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  - <https://drive.google.com/file/d/1rjaOkOZhr69-2VcR3asssd9kiWku5twC/view?usp=sharing>
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  - [https://drive.google.com/file/d/1bTfVDyBjSB1LpvvRM9dVWb4M6Ea\\_Esn6/view?usp=sharing](https://drive.google.com/file/d/1bTfVDyBjSB1LpvvRM9dVWb4M6Ea_Esn6/view?usp=sharing)
- [Decimal Bingo](#)
  - <https://drive.google.com/file/d/1wAl3xe9EEhJeCHndZ0zKP5Dpv09FIMiJ/view?usp=sharing>
- [Bingo Calling Card](#)
  - <https://docs.google.com/document/d/1dFg6dWDBkMVMylp5BRmPOgKUw9zj0uymdUaAL05cLLw/edit?usp=sharing>
- [Number Cards](#)
  - [https://docs.google.com/document/d/1qenxyjBAxxEKKowBRdlbYPwZnwpXl8Gdiygbn6i\\_6lM/edit?usp=sharing](https://docs.google.com/document/d/1qenxyjBAxxEKKowBRdlbYPwZnwpXl8Gdiygbn6i_6lM/edit?usp=sharing)
- [Blooket](#)
  - <https://www.blooket.com/set/61994622e7edfa1cd6682e8e>

#### PART 1:

##### ARK:

Page 125 - talk through problems 12 & 13 as a class. Using [number cards and the decimal](#), have students move along the place value line to show the movement of the digits when multiplying numbers by 0.1 and 0.01.

Have students stand at the front of the room holding up the cards. When the teacher says to multiply \$324.00 by 0.1, have the students shift the decimal one place to the left.

When the teacher says to multiply \$324.00 by 0.01, have the students shift the decimal two places to the left.

[Show this video](#) on multiplying decimals. (5:42). Stopping to discuss anything that may be confusing.

##### I do:

Page 123 - work through problems 1-5 for the class. Explain how the numbers shift when being multiplied by 0.1

Page 124 - work through problems 6-10 for the class. Explain how the numbers shift when being multiplied by 0.01

**We do:**

Work through problems 14 & 15 together.

Hand out a [bingo card](#) to each student. Read the equation out loud, the students will find the correct answer on their card and cover it. If time allows, play another round.

**You do/ISS:**

Page 125 #16-25 on their own. Turn in to be checked for understanding.

**PART 2:**

**ARK:**

Review what they remember about Tuesday's lesson. Ask them what they remember about shifts with decimals.

[Blooket](#)

Explain that today we are going to see what the shift looks like when both factors are a decimal.

**We do:**

Page 127 - Do problems 35-39 together as a class. Remind them about how to find where the decimal goes in the product.

**Two do:**

Page 127 - Have the students do problems 40-47 with a partner. Check and go over them as a class.