

Math

Multiply Decimal by Whole Number

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 whole numbers.

Materials:

- [Interactive Lesson](#) - Study Jams
 - <https://studyjams.scholastic.com/studyjams/jams/math/decimals-percents/mult-of-decimals.htm>
- Page [119](#)
 - <https://drive.google.com/file/d/1RTnLZYK3mKIE6KFxoEosY660aAntgmw7/view?usp=sharing>
- Page [120](#)
 - <https://drive.google.com/file/d/1lvNTs2rRhTnHHepAZpH-uZqi53xuApwM/view?usp=sharing>
- Page [121](#)
 - https://drive.google.com/file/d/1_MSHxPUA5hrLXwSoV6NxkJzIQ4yFDm90/view?usp=sharing
- Page [122](#)
 - https://drive.google.com/file/d/13xtF_6OX_Gg-5fHpFtCZM2mdTNoZilcw/view?usp=sharing

ARK:

Have students get out their white boards and markers. Review decimal place value. Relate decimals to money and guide students in writing 9 cents as a decimal, 12 cents as a decimal, etc. Also remind them how when you multiply decimals by a power of 10, the decimal shifts to the right.

Play this [interactive lesson](#) - Study Jams.

We do:

Page 119-120 - Do both pages together as a class.

-Page 119 #1: ***a dollar is made up of 100 cents. So one cent is .01 (one hundredth), twenty seven cents is .27 (twenty seven hundredths).***

-Page 119 #2: ***\$2.57***

-Page 119 chart: ***\$0.80, 60 dimes = \$6.00, total = \$8.84***

-Page 120 chart 1: ***\$1.30, \$13.00, \$130.00, total = \$144.30***

-Page 120 chart 2: ***0.04 + 0.04 = 0.08, 0.07 + 0.07 = 0.14, 0.6 + 0.6 = 1.2***

Page 121 - Do problems 9, 13, 19, 25 together as a class.

-#9: ***4.8***

-#13: ***27.52***

-#19: ***15.45***

-#25: ***\$2.35 x 24 = \$56.40***

Two do:

Page 121 - Have the students circle even numbered problems and complete with a partner. When they are finished, they will check their answers and fix any mistakes, if any.

You do/ISS:

Page 121 odd numbers