

End-of-Unit Assessment Study Guide-Multiplication and Division

Test date to be determined

IXL Objectives D.1, D.2, D.11, D.22, D.25-D.27, D.29-D.35, D.39, E.1-E.5, E.6, E.7, E.9-E.11, E.13, N.4-N.6, and N.8

- Students should know the definitions for product and quotient.
- Students should be able to solve division problems written in various forms
- Students should know or be able to find the products for multiplication combinations through 12×12 .
- Students should be able to create and solve a story problem about a division problem.
 - Example:
 - If Katrina has 468 marbles and wants to store equal amounts in 4 containers, how many marbles will be in each container?
 - *Answer: 117 marbles in each container*
- Students should be able to solve multi-step word problems using addition, subtraction, multiplication and division.
 - Examples:
 - Mrs. Anderson has 23 red pencils, 47 blue pencils, and 16 orange pencils. She wants to divide them up between three students evenly. How many pencils will each student have?
 - Mrs. Huret needs 82 markers for her class. They come in packages of 8. How many packages will she need?
 - Dr. Idio has 32 pounds of candy for the school end-of-year party. He needs 16 times as much candy. How many pounds of candy does he need?
 - Ms. McCulla spent \$58.00 on pizza and juice for a class party. If she spent \$13.00 on juice and the rest on five pizzas, how much did each pizza cost?
- Students should be able to estimate products and quotients.
 - Examples:
 - What is the best estimate for $52 \div 5$?
 - Estimate the cost of 2 books, each costing \$12, and 4 movies, each costing \$21.
- Students should be able to solve two or three digit by two digit multiplication problems.
- Students should be able solve two or three digit by one digit division problems, with and without remainders. Students can use any effective strategy to find the answer to a division problem.
 - *Example: $735 \div 9 =$*
- Students should be familiar with the Associative Property for Multiplication.
 - The grouping of numbers in a multiplication problem does not change the product
 - Example: $(18 \times 3) \times 16 = 18 \times (3 \times 16)$
 - They will need to solve a multiplication problem with three factors using the associative property.
 - Example:
 - Solve $20 \times 5 \times 34$ using the associative property
 - Group 20 and 5 because it is a simpler multiplication problem. $(20 \times 5) \times 34$
 - $20 \times 5 = 100$ and $100 \times 34 = 3,400$
 - $20 \times 5 \times 34 = 3,400$
- Students should be able to identify conversions within the US Customary system
 - Example: How many cups are in a gallon?
 - Example: How many ounces are in 4 pounds?