

Name: _____

6M – U6 – Ratios and Rates Study Guide

You are responsible for knowing the following skills:

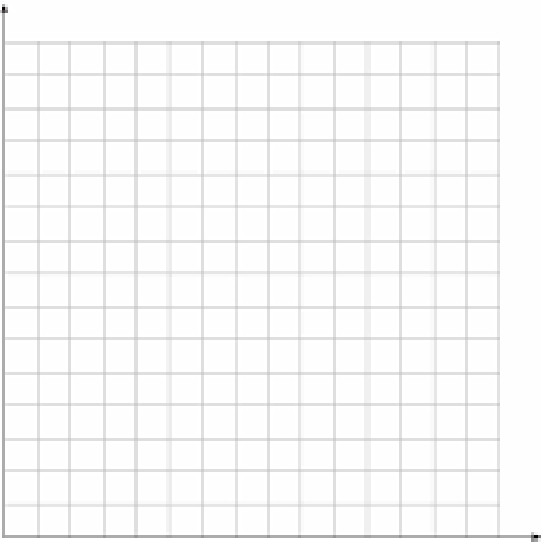
- Comparing and creating equivalent ratios
- Graphing ratios
- Creating rates and unit rates
- Solving real-world problems w unit rates
- Conversions (dimensional analysis)

Ratios, Equivalent Ratios, and Comparing Ratios

1. There are 12 7th grade students. Four of these students are girls. What is the ratio of boy students to total students?
2. Rylan is a beast at playing Fortnite. Over the course of 8 games, he gets 64 kills. If he played 3 more games, how many more kills would he get?
3. Last week Joaquin got a 9/12 on a math quiz and a 6/8 on a social studies quiz. In which class did he get the better grade? Hint: use a ratio table to help you solve this problem

Graphing Ratios

4. Chris ran 4 miles in 36 minutes. How many miles would he run if he ran for 72 min? Use a ratio table and graph the relationship to answer the question.



miles						
minutes						

Rates and Unit Rates

5. A 20 oz package of coffee costs \$4. How much does each oz of coffee cost?
6. Heavenly goes to HEB to buy a bag of Hot Cheetos. She sees a 20 oz bag for \$3.99 and a 64 oz bag for \$9.99. Which bag should she buy and why? Show your work and use at least one complete sentence.
7. Rylan and Chris want to buy an Xbox Series S together so they both get jobs. Rylan works painting fences and earns \$35 in 2 days. Chris works at Taqueria Guadalajara and earns \$84 in 4 days.
- a. How much money do Rylan and Chris each earn per day?

b. How much money do Rylan and Chris each earn in 5 days?

c. If they both work for 5 days straight and an Xbox Series S costs \$299.99, will they have enough money to buy one together?

Conversions

12 inches = 1 foot	1000 mm = 1 m	1000 m = 1 km	60 sec = 1 min
60 min = 1 hr	24 hrs = 1 day	365 days = 1 year	

8. 55 mm is how many km?

9. Suppose a bug is 5 in long. What is its length in feet?

10. How many seconds are there in 7.2 year?