

# Raiden

Friday, April 29, 2022

6th Grade Math

Due May 2, 2022

Dear Mathematicians,

Your asynchronous assignment today is to complete the 3 following pages of math review on ratios. Then, choose one problem on page 49 and explain how you solved it below.

I chose problem \_\_\_\_\_.

Explain below, use diagrams, pictures, and/or words to explain your solution.



# Finding Equivalent Ratios

➤ Use equivalent ratios to complete each table.

1

|      |   |    |   |    |    |
|------|---|----|---|----|----|
| Cats | 3 | 6  | 9 | 12 | 15 |
| Dogs | 7 | 14 |   |    |    |

3

|       |   |    |   |    |    |
|-------|---|----|---|----|----|
| Miles | 9 | 18 |   | 36 | 45 |
| Hours | 2 |    | 6 |    |    |

5

|          |   |    |    |    |    |
|----------|---|----|----|----|----|
| Cars     | 7 | 21 |    | 35 |    |
| Bicycles | 6 |    | 24 |    | 36 |

7

|         |   |     |     |    |     |
|---------|---|-----|-----|----|-----|
| Miles   |   | 170 | 340 |    | 850 |
| Gallons | 2 | 10  |     | 40 |     |

9

|        |    |    |    |  |  |
|--------|----|----|----|--|--|
| Tables | 8  |    | 16 |  |  |
| Chairs | 32 | 16 |    |  |  |

2

|         |    |    |    |    |    |
|---------|----|----|----|----|----|
| Apples  | 11 | 22 | 33 | 44 |    |
| Oranges | 12 |    |    |    | 60 |

4

|        |   |   |   |   |    |
|--------|---|---|---|---|----|
| Levels | 1 | 3 | 5 | 7 |    |
| Points | 9 |   |   |   | 81 |

6

|           |   |    |    |     |     |
|-----------|---|----|----|-----|-----|
| Cost (\$) |   | 60 |    | 180 | 240 |
| Tickets   | 4 |    | 16 |     | 32  |

8

|         |     |     |     |     |    |
|---------|-----|-----|-----|-----|----|
| Pounds  | 126 | 210 | 630 | 756 |    |
| Baskets |     |     | 15  |     | 20 |

10

|         |    |  |    |    |  |
|---------|----|--|----|----|--|
| Nuts    |    |  | 80 | 40 |  |
| Raisins | 14 |  |    | 28 |  |

11 A florist uses 225 branches of winterberry to make 75 wreaths. Based on this ratio, how many branches of winterberry does the florist use for 25 wreaths? Explain your answer.

12 Which strategies did you use to complete the table in Problem 9? Explain.

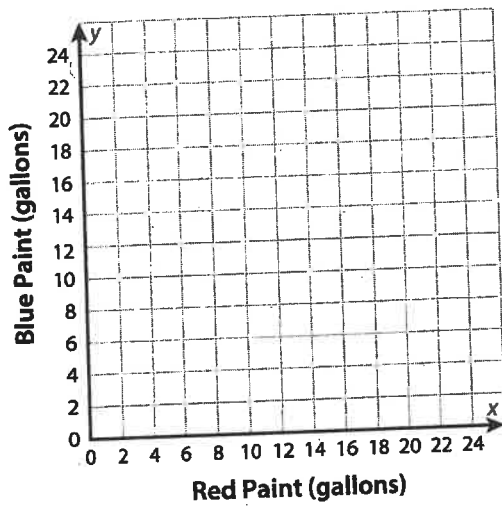


# Graphing a Table of Equivalent Ratios

➤ Complete each table of equivalent ratios. Plot the ordered pairs on the graph.

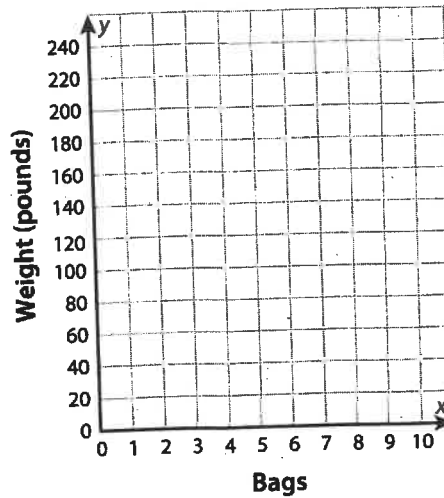
1

|                             |   |   |    |    |
|-----------------------------|---|---|----|----|
| <b>Red Paint (gallons)</b>  | 4 | 8 | 12 | 16 |
| <b>Blue Paint (gallons)</b> | 6 |   |    |    |



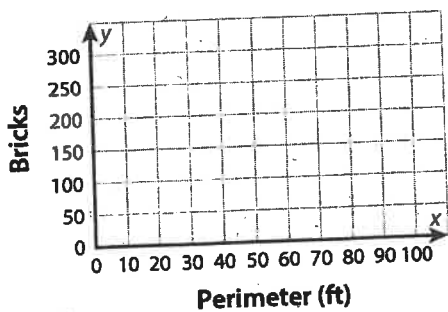
2

|                             |    |   |   |     |
|-----------------------------|----|---|---|-----|
| <b>Bags of Concrete Mix</b> | 2  | 4 | 6 |     |
| <b>Weight (pounds)</b>      | 60 |   |   | 240 |



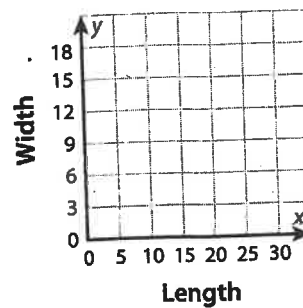
3

|                         |     |    |     |     |
|-------------------------|-----|----|-----|-----|
| <b>Perimeter (ft)</b>   |     | 60 | 80  |     |
| <b>Number of Bricks</b> | 100 |    | 200 | 250 |



4

|               |    |    |   |    |
|---------------|----|----|---|----|
| <b>Length</b> | 25 | 20 |   | 10 |
| <b>Width</b>  | 15 |    | 9 |    |



5 Explain how the graph can be used to check that the ratios are equivalent.



## Using Equivalent Ratios

➤ Solve each problem.

1 Josie is training for a race. The ratio of the number of minutes she runs to the number of miles she runs is 24 to 3. She plans to run 10 miles. How many minutes will it take her?

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3 Fred is making a fruit salad. The ratio of cups of peaches to cups of cherries is 2 to 3. How many cups of peaches will Fred need to make 60 cups of fruit salad?

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5 The first week of January, there are 49 dogs and 28 cats in an animal shelter. Throughout the month, the ratio of dogs to cats remains the same. The last week of January, there are 20 cats in the shelter. How many dogs are there?

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2 A chef planning for a large banquet thinks that 2 out of every 5 dinner guests will order his soup appetizer. He expects 800 guests at the banquet. Use equivalent ratios to estimate how many cups of soup he should prepare.

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4 A community garden center hosts a plant giveaway every spring to help community members start their gardens. Last year, the giveaway supported 50 families by giving away 150 plants. Based on this ratio, how many plants will the center give away this year in order to support 65 families?

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6 A wedding planner uses 72 ivy stems for 18 centerpieces. When she arrives at the venue, she realizes she will only need 16 centerpieces. How many ivy stems should she use so that the ratio of ivy stems to centerpieces stays the same?

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Name:

Asynchronous Day ELA

4/29/2022

Follow the sentence analysis protocol to help you find and CIRCLE the adjectives. Then punctuate the following sentences correctly. If you choose to not add a comma, EXPLAIN WHY.

1. cal looked at the huge frowning boy he was about to fight
2. bear meat gave cal one enormous blow
3. possum is cal's sensitive humorous friend
4. deacon is the thoughtful spiritual leader of the creek gang at challagi
5. the chemical gasses used in wwii left soldiers with scarred damage lungs
6. the man cal and his dad met at the beginning of the book had a long thick beard
7. school officials gave cal a rough brown backpack
8. blackjack and dakota are big strong horses
9. the old guard house is a dark damp place where children were punished
10. the smart responsible student just demonstrated proficiency at punctuating sentences containing equal adjectives.

10 points possible.



Use commas to separate parenthetical elements from the main sentence. Then label which kind of parenthetical element was present (appositive, interrupter, or explanatory phrase)

1. \_\_\_\_\_ University of Utah which is the flagship university of the state is located in Salt Lake City.
2. \_\_\_\_\_ Kumu Kalama the vice principal of PHA has lived in Hawaii.
3. \_\_\_\_\_ Math in my opinion is the best academic subject
4. \_\_\_\_\_ I thank goodness have almost finished my chores.
5. \_\_\_\_\_ Mass the amount of matter in an object helps determine its gravitation force on other objects.
6. \_\_\_\_\_ Bill Nye the science guy makes fun, informational videos.
7. \_\_\_\_\_ Kumu Melanie as you know teaches 6th grade ELA.
8. \_\_\_\_\_ Today I get to do my favorite activity sleep in.
9. \_\_\_\_\_ Phase change a change in the state of matter happens when you add heat energy or take it away.
10. \_\_\_\_\_ Using accurate punctuation which takes a while to learn will help me become a better writer.





Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Circling Adjectives Worksheet (Part 1)

An adjective is a word that describes a noun or pronoun.

**Directions:** Circle each adjective or adjectives in the sentences given below.  
Draw a line under the noun it describes.

*Example A: The test was challenging.*

*Answer: The test was challenging.*

1. The food tasted bitter.
2. I was ashamed that I didn't pass the difficult test.
3. The story was brief.
4. I felt comfortable in my new home.
5. The man was very creepy and scary on Halloween.
6. My dad was courageous when he picked up the skunk.
7. My friend is anxious for his birthday.
8. It was a breezy day.
9. I am eager to start my test.
10. My brother was excited for his basketball game.
11. I learned a lot about the blue ocean.
12. That tree is now green because I watered it daily.
13. My son is helpful.
14. There are five players on the court.

