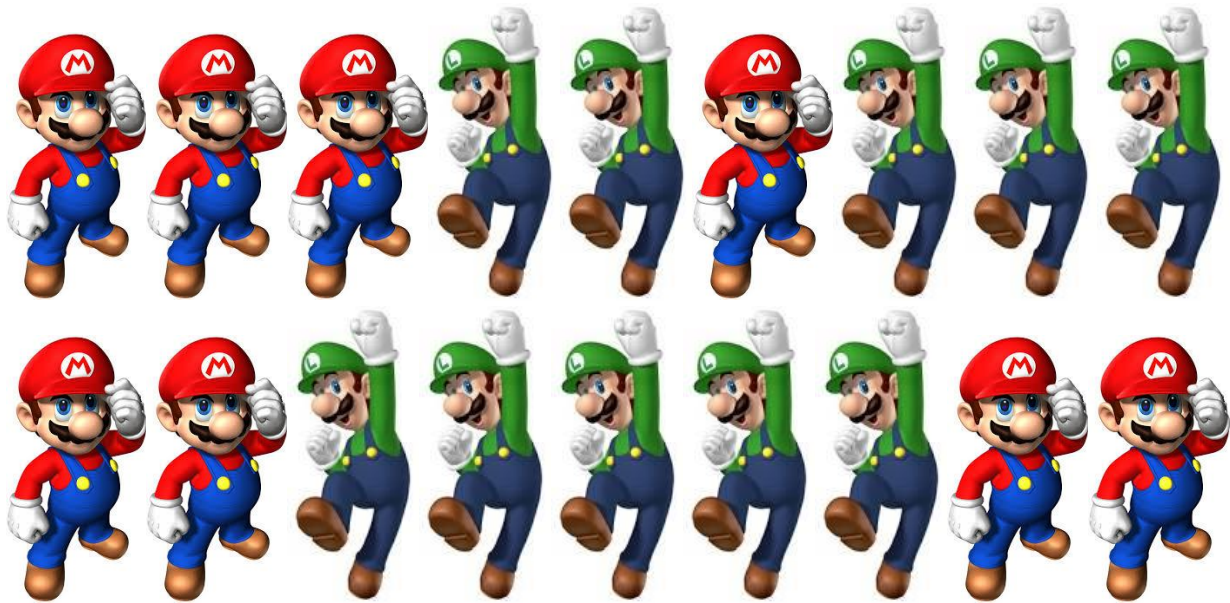


Writing Ratios in Different Forms

1) Using the picture below, complete the table below with the type of ratio and the correct ratio using numbers.



	Type of Ratio <i>Part-to-Part, Part-to-Whole, or Whole-to-part</i>	Ratio	Reduced Form
Marios to Luigis			
Characters to Luigis			
Marios to Characters			
Luigis to Marios			
Characters to Marios			

2) What type of ratio can be written as a fraction? _____

- a. Part to Part
- b. Part to Whole
- c. Whole to Part

3) Are these ratios equivalent? Start by writing each ratio and simplifying them.

12 birds to 60 animals _____

17 birds to 85 animals _____

Are they equivalent? Yes or No

4) Mary organized her room and found that she has 5 cds, 2 dvds, and 12 books.

What is the ratio of books to CD's? _____

What is the ratio of books to DVD's? _____

Which one is larger? _____

5) There are 4 blue marbles, 10 red marbles, and 7 yellow marbles in a bag. What is the ratio of red to yellow marbles?

6) Zach's garage is full of sports equipment. He has 10 soccer balls and 2 footballs. What is the ratio of soccer balls to footballs?

Write in reduced form. _____

7) Harry Potter and The Sorcerer's Stone had 32 chapters in it. Violet has read 8 chapters so far. What is the ratio of chapters remaining to chapters read?

Write in reduced form. _____

Equivalent Ratios

8) Are these ratios equivalent? *Hint, you may need to reduce the ratios in order to decide if they are equal.*

12 : 8 and 36: 32 Yes or No

12 to 20 and 24 to 20 Yes or No

$\frac{5}{9}$ and $\frac{40}{72}$ Yes or No

3 : 5 and 9 : 16 Yes or No

9) Reduce each ratio into simplest form.

9:30

25 flashlights to 35 lanterns

20 ice cream cones to 30 fudge bars

17 to 51

3 lunch boxes to 6 paper sacks

16:56

123:42

10 One Direction fans to 4
Jonas Brothers' fans

10) Complete the tables below using equivalent ratios.

	8	40	
21	3		30

	1		
24	2	12	18

Ratios in the Real World

11) Red and pink balloons are in a box. The ratio of the red balloons to pink balloons is 5:4 if the box has 24 pink balloons, how many red balloons are there?

12) Thomas mixes lemonade mix and water in the ratio of 1:15, to get lemonade. He uses 2 ounces of lemonade mix.

How much water will he need?

How many ounces of lemonade will he get?

Unit Rates

13) JD paid \$75 on eBay for 5 video games. How many games could he afford if he saves up \$90?

14) At strategy game club last Friday, students' played 3 games of Risk in 6 hours. How many games did they play per hour?

15) A car can go 147 miles on 7 gallons of gasoline (traveling with constant speed).

a. How far can the car go one 1 gallon of gas?

b. How far can the car travel on 18 gallons of gasoline?

16) Which is a better deal? Explain your reasoning.

Deal #1 – 3 pack of paper towels at Aldi's for \$2.59

Or

Deal #2 – 18 pack of paper towels at Costco for \$15.98

Challenge:

There are a total 63 Bikes. If the ratio of blue bikes to black bikes is 4 to 5 and, how many of them are blue?

