

Name \_\_\_\_\_

## Part I: Find a Job -- Long Division

Standard: 6.NS.B.2, I can fluently divide multi-digit numbers using a standard algorithm.

Congratulations!  
You have been offered 6  
different jobs.

**Directions:** Calculate which job is the best option financially using long division in order to calculate "Dollars per Hour". Show all work. Round to nearest hundredth when necessary.

The best job offer: \_\_\_\_\_

### Cashier at Kroger

**Paid:** \$325 for 1 week

**Hours:** 25 hours for 1 week

\$ \_\_\_\_\_ per hour

### Soccer Referee

**Paid:** \$452

**Hours:** 30 hours for 1 week.

\$ \_\_\_\_\_ per hour

### Lifeguard at Nashville Shores

**Pay:** \$108 for 1 week

**Hours:** 9 hours for 1 week

\$ \_\_\_\_\_ per hour

### Custodian at Movie Theater

**Pay:** \$283.25 for 1 week

**Hours:** 15.25 hours for 1 week

\$ \_\_\_\_\_ per hour

### Customer Service: Nike

**Pay:** \$173.85

**Hours:** 24.20 hours for 1 week

\$ \_\_\_\_\_ per week

### Math Tutor

**Pay:** \$545 for 1 week

**Hours:** 39 hours for 1 week.

\$ \_\_\_\_\_ per week



# Part III: Least & Greatest

Standard: 6.NS.B.4: I can find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12.

## Scenario

Your principal has chosen **you** to help him/her to lead the school fundraiser which will be a bake sale. Using your knowledge of GCF and LCM, solve the following scenarios.

- 1 Zamilya baked 64 muffins and 48 cookies. She wants to combine both treats in the same bag. She plans to use all of the cookies and muffins using the same amount for each bag. What is the greatest amount of bags she can use? How many of each will be in each bag?

- 2 Rodarius wants to make a special gift for the raffle. He has 120 mini footballs and 30 signed autographs from the Titans. What is the most amount of gift packages he can make so that each recipient gets an equal number of footballs and autographs?

- 3 Your school has a massive gym. It is 16 feet by 24 feet. You want to figure out how many stations for the fundraiser you can have. All the tables are squares but come in different styles. What is the greatest square table you can use?

- 4 The Atlanta Braves are offering a bobblehead to every 10th person who enters your fundraiser. The Nashville Predators are offering a free ticket to every 15th person who enters the fundraiser. How many attendees must come before someone receives both a bobblehead and a ticket?

- 5 You are having a cake walk. One walker reaches the finish line every 15 seconds. A second walker reaches the finish line every 20 seconds. How many seconds must go by before they both land on the same cake finish line?

- You have 50 donated sports items and 30 donated toys items. You want to mix the sports and toys items in each row at the event and you want each row to be the same. What is the greatest number of gifts you can put per row?

6

# Part IV: Keep, Change, Flip this scenario

Standard: 6.NS.1: I can interpret and compute quotients of fractions, and solve contextual problems involving division of fractions by fractions.

Scenario

Analyze the following real world scenarios. Name the Dividend and the Divisor then show your work using standard algorithm for division of fractions. Show all work.

- 1 Musa loves playing Fortnite each evening. One battle lasts  $\frac{1}{2}$  of an hour. His mom lets him play  $3\frac{1}{2}$  hours per week. How many rounds of Fortnite can he play?

- 2 Kendra is making an Instagram dance compilation video. She can make it last  $1\frac{1}{2}$  of a minute. Each clip she wants to put into the video is exactly  $\frac{4}{6}$  of a minute. How many clips can she put into her video?

- 3 At the Track City Championship, Zion can run  $\frac{1}{12}$  of a mile in a minute. He is  $\frac{3}{4}$  of a mile away from finishing the race. How many minutes will it take him to finish the race?

- 4 You are throwing a class pizza party. A pizza is cut into slices that are  $\frac{1}{8}$  of the whole. Your trifling classmate wants to eat  $\frac{1}{3}$  of the whole pizza. How many slices will he eat?

- 5 Eleniz is using her phone all day. Her battery life is down to  $\frac{2}{3}$  and it drains another  $\frac{1}{9}$  every hour. How many hours will the battery last?

PIZZA PARTY



# Part V: Order Up! Ratios

Standard: 6.RP.A.1: Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.

## Scenario

You have just been selected as the class leader for a field trip. It is your job to compare the ratios of different orders using ratio language.

## 90 Drinks:

Coke	Coke	Sprite	Pepsi	Coke	Sprite	Coke	Pepsi	Hi-C	Dr. Pepper
Orange Soda	Coke	Orange Soda	Pepsi	Sprite	Sprite	Sprite	Coke	Sweet Tea	Dr. Pepper
Coke	Sprite	Pepsi	Hi-C	Orange Soda	Coke	Dr. Pepper	Dr. Pepper	Dr. Pepper	Coke
Pepsi	Pepsi	Pepsi	Coke	Coke	Sprite	Sweet Tea	Sweet Tea	Sprite	Coke
Pepsi	Dr. Pepper	Sprite	Coke	Orange Soda	Sweet Tea	Coke	Hi-C	Sprite	Pepsi
Orange Soda	Coke	Sweet Tea	Coke	Coke	Coke	Sprite	Pepsi	Hi-C	Hi-C
Pepsi	Dr. Pepper	Coke	Orange Soda	Orange Soda	Purple Fanta	Purple Fanta	Hi-C	Sprite	Coke
Coke	Coke	Pepsi	Sweet Tea	Orange Soda	Purple Fanta	Hi-C	Pepsi	Sprite	Sprite
Sprite	Sprite	Sprite	Sprite	Purple Fanta	Hi-C	Hi-C	Dr. Pepper	Dr. Pepper	Sprite

## Ratios:

Coke to Pepsi: \_\_\_\_\_

Hi-C to Total: \_\_\_\_\_

total to Dr. Pepper \_\_\_\_\_

Sweet Tea to Orange Soda  
\_\_\_\_\_

Orange Soda to purple Fanta  
\_\_\_\_\_

Sweet Tea to Pepsi  
\_\_\_\_\_

Sprite to Coke  
\_\_\_\_\_

Sprite to total  
\_\_\_\_\_

Directions: Create 3 ratio statements in the below box that are not previously listed.

# Part V: Order Up! Ratios cont...

Standard: 6.R.P.A. 1: Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.

Scenario

You have just been selected as the class leader for a field trip. It is your job to compare the ratios of different orders using ratio language.

90 Meals:

Burger	Chicken	Chicken	Burger	Chicken	Burger	Chicken	Burger	Salad	Burger
Tacos	Salad	Tacos	Burger	Tacos	Burger	Burger	Chicken	Burger	Salad
Burger	Salad	Burger	Tacos	Tacos	Burger	Salad	Tacos	Chicken	Tacos
Tacos	Tacos	Salad	Chicken	Salad	Burger	Pizza	Salad	Burger	Tacos
Burger	Salad	Burger	Salad	Pizza	Burger	Chicken	Burger	Chicken	Burger
Pizza	Chicken	Salad	Chicken	Chicken	Salad	Pizza	Salad	Pizza	Salad
Salad	Pizza	Salad	Tacos	Tacos	Salad	Chicken	Pizza	Salad	Pizza
Burger	Burger	Burger	Burger	Pizza	Tacos	Burger	Burger	Burger	Tacos
Pizza	Salad	Pizza	Salad	Burger	Tacos	Salad	Pizza	Burger	Burger

\_\_\_\_\_ Burgers to total

\_\_\_\_\_ Chicken to total

\_\_\_\_\_ Salad to chicken

\_\_\_\_\_ Pizza to tacos

\_\_\_\_\_ Tacos to Burgers

Directions: Create 3 ratio statements in the below box that are not previously listed.