

Name: _____

Date: _____

Fractions, Decimals, and Percent

1) Complete the table

Fraction	Decimal	Percent
$\frac{1}{5}$		
	0.47	
		63%
		120%

2) If your annual salary is \$116,000 per year and the government rate of tax is 24%, how much will you pay in taxes?

b) 2,996,000 Californians filed for unemployment in April 2020. What percent of Californians are unemployed? (California population = 39,700,000)

c) If Zoom stock was \$67.20 in January 2020, and now priced at \$334.02, what was the percent of increase or decrease?

$$\frac{\text{Final value} - \text{Initial value}}{\text{Initial Value}}$$

What is the interest paid on a 4.9% CD with a deposit of \$50,000?

Patricia has completed 45% of her transfer units. If she needs to complete 60 units, how many units has she completed.

Rounding:

Rounding:	Answers:
Round to the nearest tenth: 0.323442	
Round to the nearest hundredth: 1.2389	
Round to 4 decimal places: 23.9078432	
Round to the nearest thousandth 0.7897324	



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Intro to Data Notes:

Below is a dataset on the inventory of a food supply company.

Cereals

	Name	Manufacturer	Target	Shelf	Calories	Sodium	Fat
1	100% Bran	Nabisco	adult	top	70	130	1
2	100% Natural Bran	Quaker Oats	adult	top	120	15	5
3	All-Bran	Kelloggs	adult	top	70	260	1
4	All-Bran Extra Fiber	Kelloggs	adult	top	50	140	0
5	Almond Delight	Ralston Purina	adult	top	110	200	2
6	Apple Cinnamon Cheerios	General Mills	child	bottom	110	180	2
7	Apple Jacks	Kelloggs	child	middle	110	125	0

1) What is a Categorical variable?

2) What is a Quantitative/Numerical variable?

3) What are the cases or individuals?

a). Identify each quantitative variable.

b) Identify each categorical variables.

Here is a small part of a dataset that includes information on all 136 movies to come out of Hollywood in 2011. “Rating” is audience rating on a 100-point scale, “Budget” is budget in millions of dollars, and “Opening” is opening weekend gross, in millions of dollars.

Title	LeadStudio	Rating	Genre	Budget	Opening
Insidious	Sony	65	Horror	1.5	13.27
Harry Potter and Deathly Hallows P2	Warner Bros	92	Fantasy	125.0	169.19
Bridesmaids	Relativity	77	Comedy	32.5	26.25
The Help	DreamWorks	91	Drama	25.0	26.04
Horrible Bosses	Warner Bros	72	Comedy	35.0	28.30
Transformers: Dark of the Moon	DreamWorks	67	Action	195.0	197.85

a) What are the cases or individuals?

b) Identify each quantitative variable.

c) Identify each categorical variable.

	A	B	C	D	E
1	Subject	Race	Sex	Age Range	Profit
2	1	Caucasian	Female	18-26	187
3	2	African-American	Male	18-26	160
4	3	Hispanic	Male	27-35	109
5	4	Caucasian	Female	27-35	150
6	5	Caucasian	Male	18-26	173
7	6	African-American	Male	27-35	104
8	7	African-American	Male	27-35	131
9	8	African-American	Male	18-26	145
10	9	Hispanic	Male	18-26	170
11	10	Hispanic	Male	27-35	118


a) What percent of the data is Caucasian?

b) What percent of the data is Hispanic?

c) What percent of the data is Female?

d) What percent of the data is age 18 – 26?

Millions of Americans rely on caffeine to get them up in the morning. Here's nutritional data on some popular drinks at Ben's Beans coffee shop:



Drink	Type	Calories	Sugars (g)	Caffeine (mg)
Brewed coffee	Hot	4	0	260
Caffè latte	Hot	100	14	75
Caffè mocha	Hot	170	27	95
Cappuccino	Hot	60	8	75
Iced brewed coffee	Cold	60	15	120
Chai latte	Hot	120	25	60

You try:

a) What are the cases?

b) This dataset has _____ numerical variables and _____ categorical variables.

c) Identify each quantitative variable.

d) Identify each categorical variable.

e) What percent of the drinks are cold?

Name: _____

Frequency Tables

1) Complete the frequency table of Favorite Types of Music

Favorite Types of Music				
P	R	F	P	F
F	R	F	P	P
F	C	F	C	P
C	J	R	R	F
J	R	P	P	F

Music	Tally	Frequency
Rock (R)		
Jazz (J)		
Country (C)		
Top 40 (F)		
Rap (P)		

2) Here are the number of free throws made by the third period gym class:

17, 2, 10, 4, 5, 7, 7, 16, 3, 12, 9, 3, 4. Complete the frequency table started below.

Free Throws	Frequency	Relative Frequency
1- 5		
6 – 10		
11 – 15		
15 – 20		

3) Facebook keeps record on the amount of time a people spend on its app in on day. Below is the table.

Time (minutes)	Frequency	Relative Frequency	Cumulative Frequency
$0 < t \leq 20$	16		
$20 < t \leq 30$	24		
$30 < t \leq 50$	19		
$50 < t \leq 80$	8		
Total			

4) Suppose we take a sample of 200 U.S. households and record the number of people living there. We obtain the following: Complete the table

Number of People	Frequency	Relative Frequency	Cumulative Frequency
1	10		
2	50		
3	90		
4	40		
5	6		
6	4		