Name:

Date:

Period:

To determine the domain of a given situation, identify all possible x-values (input/independent variable). To determine the range of a given situation, identify all possible y-values (output/dependent variable).

Ex:	A local theater sells admission tickets for \$5 on Friday nights. At capacity the theater holds 200 customers.			Ex:	Ex: Jack earns \$8.50 working at Walmart. His parents are worried about him keeping up with his grades, so he is allowed to work a maximum of 10 hours each week.				
Amount collected depends on number of tickets sold.				An	Amount of money earned depends on number of hours worked.				
Dependent Variable:		ble:	Amount collected	Dep	Dependent Variable:		Amount earned		
Independent Variable: # of tickets				Inde	ependent	Variable:	Number of hours worked		
Discrete or Continuous?					Discrete or <mark>Continuous</mark> ?				
Dom	ain:	{0, 1, 2,,	200}	Dom	nain:	[0, 10] c	or $0 \le x \le 10$		
Rang	e:	{0, 5, 10,	., 1000}	Ran	ge:	[0, 85] c	or 0 ≤ y ≤ 85		

Using the above examples as a guide, complete the following questions.

1.	The high school is selling admission tickets to a play for \$9. At capacity the auditorium holds 100 customers.	2.	Joy's grandmother makes homemade jars of jelly during the holidays to raise money for the local foodbank. She earns a profit of \$2.50 for each jar she sells.				
	depends on		depends on				
Dependent Variable:			Dependent Variable:				
Independent Variable:			Independent Variable:				
Discrete or Continuous?			Discrete or Continuous?				
Domain:			Domain:				
Range:			Range:				
3.	On Amazon Prime Day, Amazon offers copies of Call of Duty Modern Warfare for \$45 each. Amazon has only 100 copies in stock.	4.	Bill earns \$9 per hour at his part time job. Because he goes to school full time, he can work a maximum of 16 hours each week.				
	depends on		depends on				
Dependent Variable:			Dependent Variable:				
Independent Variable:			Independent Variable:				
Discrete or Continuous?			Discrete or Continuous?				
Domain:			Domain:				
Range:			Range:				
5.	A supply ship can carry a maximum cargo weight of 160,000 pounds. A company uses one of these ships to deliver 2,000-pound containers.	6.	Hazel charges \$15 per hour to clean houses. She also charges \$10 for cleaning supplies. Because Hazel has so many clients, she refuses to spend more than 4 hours cleaning a single house.				
depends on			depends on				
Dependent Variable:			Dependent Variable:				
Independent Variable:			Independent Variable:				
Discrete or Continuous?			Discrete or Continuous?				
Domain:			Domain:				
Range:			Range:				