	Geometry (HSS-CP.B.9)		Name: _	Name:	
	Unit Six: Probability –	Combinations (HW12)	Date:	Period:	
	Calculate the total nu	mber of possible outcomes.			
	a) In how many o	a) In how many different ways can a 2-person committee be selected from 10 people?			
	b) 20 old video g possible?	ames are in a bin. The sign sa	ays pick any 4 for \$5. How man	y different groups of 4 are	
If you have a standard deck of cards in how many different ways can you deal out (O				(Order Matters)	
	c) 5 cards?	d) 10 cards?	e) 5 red cards?	f) 4 queens?	
	If you have a standard	d deck of cards in how many	different hands (Groups) exists	s of	
	g) 5 cards?	h) 10 cards?	i) 5 red cards?	j) 4 queens?	
	k) How many ways car and 2 nd in the lineup?		rs line up if the captain and assi	stant captain must be 1 st	
	I) The game of euchre (groups) are possible?	•	andard deck. How many differer	nt 5 card euchre hands	

m) How many groups can be n) How many groups of 4 could be o) How many groups of 4 could be formed by pulling 4 tiles from the made up of only vowels? made up of only consonants? bag? p) In how many ways can a committee of six teachers be formed from a group of 12 teachers? q) A club elects a president, vice-president, and secretary. How many sets of officers are possible if there are 13 members and any member can be elected to each position? No person can hold more than one office. r) A physics exam consists of 9 multiple choice questions. If an examinee must answer any 7 of the questions how many groups of 7 can be chosen? s) A teacher and 6 students are to be seated along a bench in the bleachers at a basketball game. In how many ways can this be done if the teacher must be seated in the middle and a difficult student must sit to the teacher's immediate left? t) You want to arrange 7 of your favorite CD's along a shelf. If the Imagine Dragon's CD must come first, how many different ways can you arrange the CD's assuming that the order of the CD's makes a difference to you?

Given a bag with 11 tiles, 4 with vowels (A, I, O, E) and 7 with consonants (T, R, K, W, P, H, L).