EVHS	Math 2	Unit 6 Review	(10 Points)	
Show all work neatly organized that leads to the solution in order to receive full credit.				
1 You record a high school student's grade level and whether they respond <i>yes, no,</i> or <i>maybe</i> to a survey question. <b>How many possible outcomes</b> are in the sample space? <b>List the possible outcomes</b> .		vel 7 You roll a 20-sided a <b>Event </b> <i>A</i> : Roll a p s are <b>Event </b> <i>B</i> : Roll a p es.	7 You roll a 20-sided die. <b>Find </b> <i>P</i> ( <i>A</i> <b>and</b> <i>B</i> ). <b>Event</b> <i>A</i> : Roll a perfect square. <b>Event</b> <i>B</i> : Roll a prime number.	
2 A ba word <b>H</b> What is	ng contains 9 tiles, one for each letter in <b>APPINESS</b> . You can choose a tile at rand the probability that you choose a tile v	the lom. vith		
the lette a tile wi	er <b>S</b> ? What is the probability that you clith a letter other than <b>E</b> ?	noose 8 <b>Tell whether</b> the quusing <i>permutations</i> you reasoning. <u>Ther</u>	estion can be answered or <i>combinations</i> , & EXPLAIN <u>n answer the question</u> .	
3 Using the spinner below, what are the <i>odds in favor</i> of stopping on yellow? What are the <i>odds against</i> stopping on blue?		Your band director is c represent your band at are 48 seniors in the ba can the band director	Your band director is choosing 6 seniors to represent your band at the Band Convention. There are 48 seniors in the band. <b>How many groupings</b> <b>can the band director choose 6 seniors?</b>	
	Orange Green	Yellow 9 Let A and B be even P(B) = 0.48, and P P(A  or  B).	Its such that $P(A) = 0.32$ , ( <i>A</i> and <i>B</i> ) = 0.12. <b>Find</b>	
Find the given m 3 blue fore d the first 4 Red	e probability of randomly selecting the narbles from a bag of 5 red, 8 green, marbles when (a) you replace the first me arawing the second, and (b) you do not rep marble. Compare the probabilities.	e and arble blace 10 Out of 100 employ employees either wo each week. There are part time and 83 em each week.	vees at a company, 91 ork part time <i>or</i> work 5 days e 15 employees who work ployees who work 5 days	
5 Blue	e, then Red	What is the probability employee works both week?	γ that a randomly selected part time <u>and</u> 5 days each	
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Name: \_\_\_\_\_

Period\_\_\_\_\_

6 Green, then Green

<b>Evaluate the expression.</b> 11 <sub>7</sub> P <sub>6</sub>	17 In a class of 30 students, 19 students have brown hair, 2 students have blonde hair, 2 students have red hair, and 7 students have black. hair. <b>Find</b> <b>the probability of randomly selecting a student</b> <b>with brown hair</b> .
12 <sub>13</sub> P <sub>10</sub>	
12 0	<ul> <li>18 Tell whether the events are <i>independent</i> or <i>dependent</i>. Then find <i>P</i>(<i>A</i> and <i>B</i>).</li> </ul>
13 <sub>6</sub> C <sub>2</sub>	You randomly select a card from a standard deck of 52 playing cards, and <i>without replacing it</i> , you randomly select another card.
14 <sub>8</sub> C <sub>4</sub>	Event <i>A</i> : Pull a prime number. Event <i>B</i> : Pull an face card.
15 In how many ways can you arrange ( <i>a</i> ) all of the letters and ( <i>b</i> ) 3 of the letters in the word UNCLE?	
<b>16</b> A random drawing will determine which 3 people in a group of 9 will win concert tickets. <b>What is the probability that you and your 2 friends will win the tickets</b> ?	K       K
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