Name:	Date:	

## Unit 9 Review

For each type of question, the achievement level is indicated. Showing work is an important strategy in communicating your knowledge and ideas so please be thorough.

Learning Goal 9.1 I can calculate probabilities.

Deve	loping
<ol> <li>When rolling a six-sided fair die, what is the probability of rolling         <ul> <li>a 3?</li> <li>an even number?</li> <li>anumber greater than 4?</li> <li>anumber that is at least 3?</li> </ul> </li> <li>If you have a spinner with the letters P, E, A, R, and K on it, what is the probability of spinning         <ul> <li>a P?</li> <li>a vowel?</li> <li>a consonant?</li> </ul> </li> </ol>	<ul> <li>2. If you have a pen, a pencil, a marker, an eraser and a pencil sharpener in a pencil case, what is the probability you would remove <ul> <li>a. a pencil?</li> <li>b. a writing stick?</li> <li>c. not a writing stick?</li> </ul> </li> <li>4. If you have a spinner with the colours red, orange, yellow, green, blue and purple, what is the probability of spinning <ul> <li>a. red?</li> <li>b. a primary colour?</li> </ul> </li> </ul>
d. a letter from the word PEAR?	c. a secondary colour?
	icient
<ul> <li>5. You have two bags of marbles and each bag containing a blue, red, yellow and green marble. If one marble is taken from each bag,</li> <li>a. Draw a tree diagram to show the sample space.</li> <li>b. What is the probability that one of the marbles is green?</li> <li>c. What is the probability that the two marbles are the same colour?</li> <li>d. What is the probability that one of the marbles is not red.</li> </ul>	<ul> <li>6. Three frozen treats are flavoured raspberry, lemon and orange. Without looking, Tara chose a treat, then decided she didn't want it. She replaced it and without looking, chose another.</li> <li>a. Create a table to show the sample space.</li> <li>b. What is the probability that she picked the kind she didn't like the second time as well?</li> <li>c. What is the probability that she chose a different flavour than the first on her second pick?</li> </ul>
<ul> <li>7. You have 4 different t-shirts (white, green, orange and brown), 3 sweaters (black, grey and blue) and 2 pairs of pants (blue and brown).</li> <li>a. Draw a tree diagram to show the sample space of all possible outfits.</li> <li>b. What is the probability that you are wearing a white shirt?</li> <li>c. What is the probability that your sweater and pants are the same colour?</li> <li>d. What is the probability that your t-shirt and pants are the same colour?</li> </ul>	<ul> <li>8. You are rolling 2 six-sided fair dice.</li> <li>a. Create a table to show the sample space of the sum of the two dice.</li> <li>b. What is the probability that the sum is 6?</li> <li>c. What is the probability that dice landed on the same number?</li> <li>d. What is the probability that the sum is less than 6?</li> <li>e. What is the probability that the sum is at least 8?</li> </ul>

Name:	Date:
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## Unit 9 Review

Extending		
<ul> <li>9. An ice cream shop has 30 different flavours of ice cream, 3 different cones and 5 toppings.</li> <li>a. How many possibilities of single scoop ice cream cones are there if you do not have to choose a topping?</li> <li>b. How many possibilities of double scoop ice cream cones are there if you do not have to choose a topping?</li> </ul>	10. If you have 2 decks of cards and draw a card from each of them, how many possible card pairings are there?	
11. You roll 2 four-sided dice.	12. You draw a card from a deck of cards, replace it,	
a. Find $P(1,1)$	shuffle and draw again.	
b. Find $P$ (neither is a 1)	a. Find P(the same card was drawn twice)	
c. Find $P$ (both are greater than 2)	b. Find P(both cards are red)	
d. Find P(both are even numbers)	c. Find <i>P</i> (one is a number, the other a face)	

Name:	
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Date: \_\_\_\_\_

## Unit 9 Review

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Learning Goal 9.2	I can demonstrate an understanding of data analysis.
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	Developing			
1. Ca	1. Calculate the mean, median, mode and range of the following data sets.			
a.	{7, 4, 6, 3 6, 2, 7, 4, 3, 6}	b. {3,7,4,3,7,7,4,4,2,3}		
C.	{8,7,2,3,9,4,3,6,5,7}	d. {4,9,8,3,4,3,9,2,9,9}		
	Proficient			
e.	{18, 61, 62, 31, 59, 52, 18, 10, 22, 61}	f. {93, 19, 30, 97, 79, 68, 67, 25, 23, 41}		
g.	{84, 73, 77, 49, 63, 84, 12, 59, 64, 65}	h. {24,50,34,37,44,41,43,49,97,84}		
	Extending			
i.	Ratings of New Social Media App	j. Heights of Students		
	1 2 3 4 5  RATING SCORE	(m) the second of the second o		