Na	ame			Date	Block
		ALGEBRA		0-11a Practice	
	Complete e	ach of the followi	ng. SHOW WORK!!		
	Find each p	robability using the	cards at the right.	R E D	GRE
1	P(E)	2 P(R)	3 P(G)	E N B	LUE
4	P(L)	5 P(L or D)	6 P(L or R)	7 P(vowel)	8 P(not R)
	Box of erasers:	3 green, 6 yellow, 2	2 white, 3 red, 4 blue		
9	P(green or blue)	10 P(yel	low or red) 1	1 P(not green or white)	12 P(not red or blue)

Draw a diagram to find all the possible choices.

12 Breads at the bakery:	14 Lunch at a Chinese restaurant:
white, rye, wheat	wonton soup or egg drop soup
regular size, mini-loaf	fried rice, beef lo mein, chicken & broccoli
	pineapple or mandarin oranges

Find the number of outcomes using the Fundamental Counting Principle.

15 Muffin choices: apple, blueberry, bran plain or streusel topping with or without chopped nuts 16 Airline tickets:
7 airlines
3 prices
2 local airports
first-class, business-class, economy

17 T-shirt choices:

S, M, L, XL 8 colors with or without pockets 18 Paint choices:
5 colors
water-based or oil-based
flat, semi-gloss, high-gloss

Solve each problem.

- 19 The beach excursion plane flies four times a day on Thurs, Fri, Sat, and Sun. Tickets may be purchased for one-way or round trip flights. How many travel options are available?
- 20 Margaret Bower went away for the weekend. In her suitcase she had a beige skirt, a white skirt, a brown blouse, a striped blouse, a brown belt, a white belt, a black belt, and tan shoes. How many different outfits could Margaret wear?

Name			Date		Block
	ALGEBRA		0-11b P	ractice	
Complete e	each of the following	. SHOW WORK!	!		
Find each o	dds using the cards a	t the right.	R	E D	G R E
1 odds(E)	2 odds(R)	3 odds(G)	E	NB	L U E
4 odds(L)	5 odds(L or D)	6 odds(L o	or R) 7	odds(vowel)	8 odds(not R)
				0000(101101)	
Box of erasers:	3 green, 6 yellow, 2 v	/hite, 3 red, 4 blue	9		
9 odds(green)	10 odds(ye	llow or red)	11 odds(not whi	te) 1	2 odds(not red or blue)
Find the oc	lds of each outcome	if a computer ra	ndomly picks a l	etter in the na	me
THE UM	NITED STATES OF A	MERICA.			
13 odds(A)	14 odds(T)		15 (vowel)	1	6 odds(not E)
Solve each	situation.				
17 If the odds of an	event is $4/_{-}$ what		18 If the probab	ility of an event	is ⁶ /or what
	oossible outcomes?			against the even	-

NAME

_ DATE _____ PERIOD _

12-7a Practice

Probability of Compound Events SHOW WORK!

A bag contains 2 green, 9 brown, 7 yellow, and 4 blue marbles. Once a marble is selected, it is replaced. Find each probability.

1. P(brown, then yellow)

Algebra

2. *P*(green, then blue)

3. *P*(yellow, then yellow)

4. *P*(blue, then blue)

5. *P*(green, then *not* blue)

6. *P*(brown, then *not* green)

A die is rolled and a spinner like the one at the right is spun. Find each probability.

7. P(4, and A)

8. P(an even number, and C)

9. *P*(2 or **5**, and B or D)

10. *P*(a number less than 5, and B, C, or D)

A card is being drawn from a standard deck of playing cards. After a card is selected, it is replaced. Find each probability.

11. P(jack , ten)

12. P(red, black)

14. P(red, ace)

13. P(queen, club)

15. P(diamond) black)

16. *P*(face card , spade)

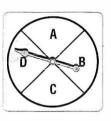
Tiles numbered 1 through 20 are placed in a box. Tiles numbered 11 through 30 are placed in a second box. The first tile is randomly drawn from the first box. The second tile is randomly drawn from the second box. Find each probability.

17. *P*(both are greater than 15)

18. The first tile is odd and the second tile is less than 25.

19. The first tile is a multiple of 6 and the second tile is a multiple of 4.

20. The first tile is less than 15 and the second tile is even or greater than 25.



eı

esson 12-7

Nam	е
-----	---

		Date	e	
	ALGEBRA	12-71	b Practice	
-	itains 2 green, 9 brown, 7 ye it is not replaced. Find eacl		s. Once a marble is SHOW WORK!!	
1 P(brown, then	yellow) 2 P(gre	en, then blue)	3 P(yellow, then y	ellow)
4 P(blue, then bl	ue) 5 P(not	green, then blue)	6 P(brown, then n	ot green)
	chosen from a standard dec placed. Find each probabili		[.] a card is chosen, W WORK!!	
7 P(J, 10)	8 P(red, then bla	ack) 9 P(Q, club)) 10 P(r	ed, then A)
11 P(diamond, bla	ack) 12 P(face card, s	pade) 13 P(red, not	t face card) 14 P(h	eart, not Q)
	bered 1 through 30 are plac ed, then the second tile is o		-	
15 P(odd, less that	n 25) 16 P(bot	h greater than 15)	17 P(multiple of 6,	multiple of 4)
18 P(less than 15	, greater than 25) 19 P(gre	ater than 9, multiple of 3)	20 P(both between	15 & 20)

Na	me
----	----

		Dale	BIOCK			
ALGEBRA		12-7c Practice				
	green, 9 brown, 7 yellow, an elected, do not replace it.	d 4 blue marbles. Find each SHOW WOR				
1 P(brown, then not blue)	2 P(green, then	not red) 3 P(yell	low, then not green)			
4 P(green, then not browr	n) 5 P(not green, th	nen not blue) 6 P(red	l, then not yellow)			
A card is chosen from a standard deck of playing cards. Find each probability. SHOW WORK!!						
7 P(red or face card)	8 P(red or 7)	9 P(Q or a heart)	10 P(red or A)			
11 P(club or odd)	12 P(face card or spade)	13 P(red or not face card)	14 P(heart or not Q)			
Tiles numbered 1	through 30 are placed in a b	oox. Find the probability.				
15 P(odd or less than 25)		16 P(multiple of 6 or multi	ple of 4)			
17 P(less than 15 or greate	er than 25)	18 P(greater than 9 or mu	ltiple of 3)			

Name		Date	Block				
		5 Practice					
	The results of a survey of 100 randor	nly selected stude	nts at a				
	2000-student high school are below. Find the experimental probability						
	that a student selected at random ma	lkes the given respo	nce.				
		PLANS FOR AFTER	2 GRADUATION				
	D P(community college)	Responce	H of Respondents				
		Go to a community co	Illege 24				
		Go to a A-year coll.	ege 43				
	2) P(4-year college)	Take a year off, 13	* 12				
		Go to trade school	15				
		Do not plan to go to	college lo				
	3 P(trade school)						
*	(1) P(not trade school)						
		`					
	(5) P(trade school or community college	2)					
n line di sala se							
and the second			1				
	@ P(community or A-year college)		×				
	· · · · · · · · · · · · · · · · · · ·						
~							
		1					
			- in				

A forest contains about 500 trees. You randomly pick 67 trees and find that 27 are oaks.

DWhat is the experimental probability that a tree in the forest is an oak? (B) Predict how many oak trees there are in the forest.

Suppose 12 out of 30 families on your street have a cat. or dog as a pet.

(9) What is the experimental probability that a randomly selected family in your neighborhood will have a cat or dog as a pet? (0) Predict how many cator dog-owning families

you can expect among

57 families in your neighborhood.