

N.I.	\sim 1	
Name:	Class:	

GCF and LCM word problems

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٠,	Henry	y and l	₋ilian	are t	wins.	Their	mum	n bou	ght a	a cart	on	of bi	scu	its ar	nd k	ept	in t	he	hous	e fo	or
•		to alv					442	8								201			1000	901	
	Control of the Control	n each				-	COLUMN COLUMN	10000	COLOR DE LA CASA	-									-01-00V	155	
		ilian a										1-32									(2)
		the ca		100				100000000000000000000000000000000000000				127.25	1534-153		OLOUVE S			-04/		201480	
		is the				numk	oer of	bisc	uits t	hat L	ilia	n ha	s re	move	ed f	rom	th:	e ca	arton	?	
*>	Henr	y has 4	42 re	d glas	s ma	rbles	and I	his fri	end,	Dan	iels	has	28 k	olue	glas	s m	arb	les.	For	the	ir
	game	e, they	wan	it to f	orm	as m	any g	roup	s of	glass	ma	arble	s a	s pos	ssib	le, ۱	with	ea	ch g	rou	р
	havin	g the	same	com	binat	ions	of blu	e and	l red	glas	s m	arble	es. A	Also,	the	y wa	ant	to r	nake	sur	e
	that i	none c	of the	marl	oles is	s left	out. \	What	is th	e gre	eate	st n	umk	oer o	f gr	oup	s th	ney	can	get	?
*>		Tom wages,																			
	pack	ages c nambu	of 12,	sausa	ges c	ome	in pa	ckag	es of	f 6, h	aml	52									
	a.		t is t	he lea	ast nu		or of p	100	11:000			rve i	f sh	e bu	ys 1	the	leas	st n	umb	er c	of
	b.					mhei	r of pa	ackad	200	of ear	h it	em	she	shou	ıld l	OLIV	to	hav	e en	alla	h
	0.500	rve the					- 84		2							156		IUV	C CIII	Jug	
*>		ust m																			
	She r	nade 2	24 pie	eces o	of chi	cken,	orde	red 12	2 pie	ces c	f pi	zza,	bak	ed 4	8 cı	upc	ake	s, 3	6 co	okie	S
	and 1	2 brov	vnies	. She	want	s to s	split tl	hem e	equa	lly ar	nor	g th	e ta	keou	ıt p	late	s to	sh	are to	o th	е
	реор	le she	wan	ts to i	nvite	with	no fo	od le	eftov	er.											
	a.	Wha	t is th	ne gre	eatest	num	nber c	of tak	eout	plate	es s	he c	an r	nake	to	sha	re?				_
	b.	How	man	у ре	ople	can	she ir	nvite	to h	er p	arty	/ if e	each	n per	sor	is	ent	itle	d to	on	е
	taked	out pla	te?																		_
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them to always take some to school. Henry plans to always remove 9 biscuits from the carton each time he wants to eat, while Lilian plans to always remove 7. A week later, Henry and Lilian are surprised to realised that they have removed the same number of biscuits from the carton so far.

What is the least possible number of biscuits that Lilian has removed from the carton?

What is the least possible number of biscuits that Lilian has removed from the carton?

1. We find the LCM of 7 and 9 to determine the least number of biscuits Lilian removed from the carton.

Multiples of 7 are: 7, 14, 21, 28, 35, 42, 49, 56, 63, 70 ...

Multiples of 9 are: 9, 18, 27, 36, 45, 54, 63, 72 ...

- This shows that Lilian has removed 63 biscuits from the carton.
- Therefore, there will be 14 number of groups.
- a- So, she can serve 24 people if she buys the least number of packages of each item.
 b- So, she should buy 2 packages of sandwich rolls, 4 packages of sausages, 3 packages
 of hamburger buns, and 4 packages of hamburger meat patties in other to serve 24
 people with none left over.
- a- \$0, she can make 12 takeout plates to share.
 - b- Therefore, she can invite 12 people to her party so that each person can get one takeout plate without any leftover.
 - c- So, there will be 2 pieces of chicken, 2 pieces of pizza, 4 cupcakes, 2 cookies, and 1 brownie in each takeout plate.