Problem 1							
a. True							
b. True							
c. False							
Problem 2							
Firms usually d	o not change th	neir dividends ve	ery frequently. T	his is what is m	neant by "sticky	" dividends.	
Part of the rea	son for "sticky"	dividends is that	at firms are relu	ctant to cut div	ridends, because	of the fear	
that markets w	vill punish them.	Consequently,	they do not inci	ease dividends	unless they beli	eve that they	
can maintain th	nese higher divid	dends.					
	_						
Problem 3							
Cutting divider	ids may send a	very negative s	ignal to markets	s. When firms a	nnounce that th	ey will be	
cutting dividen	ds, markets ass	ume the worst,	i.e, that the fir	m is in serious f	inancial trouble	and	
the company's	stock price usu	ally drops sharp	ly.				
Problems 3a ar	nd 3b						
See contribute	d problems and	solutions					
Problem 4							
If there are no	tax differences	in the treatmen	it of dividends a	ind capital gains	s, and firms can	raise external	
financing at litt	le or no cost, it	can be argued	that dividends	are irrelevant. L	arge, financially	strong firms	
with primarily t	ax-exempt or lo	w-tax rate inve	stors may fit th	is description b	est.		
Problem 5							
No. This tax dis	sadvantage was	particularly app	olicable in the Ur	nited States pri	or to 1986 for h	igh-tax rate	
individual inves	tors. It does no	t apply to tax e	xempt investors	or to corporat	ions.		
Problem 6							
It should reduc	e the amount it	pays in dividen	ds. The problen	n it might run ir	nto is communic	ating this	
intent to the m	arket. Since its	existing stockh	olders like divid	ends, the annou	incement is like	y to lead	
to some of the	m selling the st	ock, causing the	e stock price to	drop.			
Problem 7							
					e that its future		
be high enough	n to continue ma	aking these divi	dend payments	. This confidence	e is the positive	signal that miq	ht
			the firm's value	The empirical	evidence is supp	ortive, with	
stock prices in	creasing on divid	dend increases.					
Problem 8							

Yes. If a firm t	hat is believed t	o have great pro	ojects/high grov	wth prospec	ts increases divider	ds, it may	
send the signa	I that its project	t choice is narro	wing. There see	ms to be no	empiricial evidenc	e to	
support this hy	ypothesis, thoug	h.					
Problem 9							
(Price before -	Price After) = (1- t(ordinary)) /	/ (14 t (ordina	ry))			
Solving for the	ordinary tax ra	e,					
	$3.5/5 = (1-t_0)$	/(14t _o)					
Ordinary tax ra	ate =	0.30/0.72 =	41.67%				
Problem 9a							
See contribute	ed problems and	solutions					
Problem 10							
Company	Price change	Dividend	Price change/D	ividend			
NE Gas	2	4	0.5				
SE Bell	3	4	0.75				
Western Elec	5	5	1				
As a tax-exem	pt investor, you	make returns b	ased upon the o	difference b	etween the price dr	op and the	
	•		•		cks. On both an ab	T .	
	sis, NE Gas is yo						
Problem 11							
	he true capital g	jains tax rate =	Stated Rate/(1	+R _f) ⁿ			
	$(P_b - P_a) = (1-t)$	o) / (1- t _{cg})					
	(\$ 10 - \$ 9.20) = (15) / (1	5/1.1 ⁿ)				
Solving for n,							
	n = approxima	tely 3 years					
Problem 12							
Tax rate on div	vidends = (40%)	(.15) =	6%				
Tax rate on ca	pital gains =		28%				
Expected price	drop on ex-divi	dend day = (\$0.	50) (106)/(1	28) =	\$ 0.65		
Problem 13							
I would expect	the price to dro	p since the act	ual price increas	se of 4% is I	ess than the expec	ted (or usual)	
price increase							
Duchler: 4.4							
Problem 14	<u> </u>				61		
The stock pric	e may react neg	atively. The div	dend may signa	ı that Micro	soft's project choic	e is becoming	

less attractive,	and this will ha	ve negative cor	sequences for t	future growth a	nd project retur	ns. In addition,
stockholders in	Microsoft are li	kely to be orier	nted to capital g	ains and may n	ot like the divide	nds.
			_			
Problem 15						
I would expect	the price reacti	on to be positiv	e. The price inc	rease in this ca	se may send a p	ositive signal
to financial mai	rkets. The answ	er is different ir	this case, beca	ause the auto p	arts industry is	a more stable
one than the so	oftware busines	s (reducing the	negative signal	ling implications	s of the dividend	increase).
				antial dividends	implies that its	stockholders
will be less ave	rse to receiving	more in divider	ds.			
Problem 16						
					rm are likely to	0 1 3
			e dividend incre	ase at the marg	in conveys less	information
than it would for	or a smaller firm					
Problem 17						
					as probably alre	, , , , , , , , , , , , , , , , , , ,
					cline in dividend	
		indicating that r	management be	lieves that the	earnings decline	is not a short
term phenomei	non.					
5 11 10						
Problem 18		<u> </u>				
					isco was under	
					returns. Selling	
	•		•		ld add to this re	action because
it eliminates th	e chance that t	nis cash will be	invested in othe	er poor projects		
Problem 19						
I would expect	bond prices to	drop. Selling ass	sets (especially	liquid ones) and	paying dividen	ds makes
these bonds m	uch riskier.					

Problem 20								
1. Signalling ef	fects: A regular	dividend should	send out a str	onger positive s	signal than eithe	r a special divid	end or a stock	
buyback.								
2. Tax Effects:	A stock buybac	ck may have less	s negative tax o	onsequences fo	or some investor	s in the stock	han dividends.	
3. Sustainabilit	y: A regular divi	dend presumes	that the firm w	ill have similar	cash flows in the	future to sust	ain the	
dividend.								
Problem 21								
An equity repu	rchase will gene	erally provide a s	smaller signallin	g benefit than a	a regular dividen	d because it is	viewed as a	
one-time occur	rence. A regula	r dividend on th	e other hand br	ings with it the	expectation of	similar dividend	s in the future.	
A special divide	end is also a one	e-time occurrenc	ce and should p	rovide no signa	lling advantages	over equity rep	urchases.	
Problem 22								
a. No. The earr	nings per share v	will increase only	y if the return o	n assets excee	ds the after tax	cost of borrow	ing.	
					down even wit			
					n increased lever		will go up.	
				-				
Problem 23								
	Without	With						
	Borrowing	Borrowing						
EBIT	20	20						
Interest Exp.	0	4.8						
EBT	20	15.2						
Taxes	10	7.6						
Net Income	10	7.6						
# Shares	100000	60000						
EPS	100	126.666667						
b. The interest	rate on debt w	ould have to be	12.5% for the	EPS effect to d	isappear.			
Problem 24								
Forward contra	cts to buy equi	ty are riskier tha	an announceme	nts of buybacks	s because they r	epresent legal	obligations to	
	stated price. Th					. 5	Ĭ	
	·							
Problem 25								
	nend a split up o	of the firm into	tobacco and fo	od companies.	A major barrier t	o such an actio	n might be	
				•	y such an action			
	. 3	, 3.50		<u> </u>	,			
Problem 26								
	ff will not solve	the problem be	cause incumber	nt management	(which is the p	roblem) is still r	unning the	
		<u> </u>			s to outsiders, o			
r wodia ro	SSIIIOIIG DI CUI	g up the min	and Johning Ita	zaporiorit part	S to outsidely (o. a spire oir wii	p. o moumbont	

managamant	avaliaithy diagyay	us control in the	onlit off ontitio					
management	explicitly disavov	VS CONTROL IN THE	spiit on entitie	5.				
D I- I 0.7								
Problem 27	16.1							
	several factors							
	nt entity than as					<u> </u>		
	rsue plans it cou							
	ure. Finally, the		spin off may for	rce analysts to I	ook at the valu	e of the spun of	f entity and	
realize that th	iey have been ur	ndervaluing it.						
Problem 28								
	preponderance of					·		
	\$ 500), I do no			-			-	
	expect an initial	•						
with positive i	news that confir	ms the signal se	nt by the split	- i.e., that highe	r earnings and	stock prices will	follow.	
Problem 29								
I would expect	t the stock price	reaction to be	negative. A sto	ck dividend is a	cosmetic event	with no cash fl	ows associated	with
it and cannot	replace a cash d	ividend.						
Problem 30								
The positive re	eaction can be e	xplained by seve	eral factors. Firs	st, the action su	iggested that th	ne management	of the firm was	
aware that the	ey had a problen	n and were willin	ng to deal with i	t. Second, the s	plit up units ha	d more indepen	dence and were	
no longer burd	dened by the pol	icies and praction	cies of the othe	r units. Third, it	allowed each of	f the split up un	its to reveal	
their assets ar	nd earning power	r separately mal	king it easier to	value the comp	onent parts.			
Problem 31								
Spinning of th	e nonregulated k	ousinesses may	relieve them of	the burden of h	naving to worry	about the cons	equences of the	ir
actions for the	e regulated pare	nt company. It v	will also allow th	em to set divid	end and financi	ng policy which	is more	
consistent wit	h their own inter	rests.						
Problem 32								
Spin offs and	split offs may m	ake it easier to	value firms sinc	e they isolate th	ne assets of the	entity being va	lued. It is easier	
	sk parameters fo							
	statements that						·	
Problem 33								
The spin off w	vill add to the val	ue of the firm o	nly if the corpo	rate costs are e	excessive or unr	ecessary, and t	hus can be	
	minated without							
	uld now have to			-				
				, sp.	2 2 2 2 7 1 0			
Problem 34								
	1	1	ı	I .	ı	I .	1	

Capital Structure Changes

No. I do not think Nabisco's stockholders will be satisfied. While one of the objectives for the spin off - separating the							
contaminated tobacco division from the food division - may have been accomplished, the other - removing management							
that they view as incompetent - would not.							