

6Yj 1bXcf`1g HUbI `1g



HUbI `1g! 9[mYhYa

\c`UbX

=_nci `a]^[fUW[]bgWf]j Yb`]b`YYb`i b]j Yfg]hY]h`
6Y]fUh_cn1g

j]Yrb1a]

Hð]a i b[\]XUb\ j 1c`a hlf b[í]\ W

=_nci `a]^[fUW[]bgWf]j Yb`j ccf`SSSSSSSSSSSSSSSS"
>Y`Ybh_YnÅg`_ÅdnÅgfY

Hð]a i b í Bb[`É`_Í`U` \ WSSSSSSSSSSSSSSSS"

Yb`VUWY`cfd`Y]X]b[
? ÅdnÅg`hÉdi gJ

í]\ W

Yb`dcb]`fUXi UH
? ÅdnÅg`hÉdi gJ

h Vg

Yb`XcVtcfUh
? ÅdnÅg`hÉdi gJ

h] b`g

Yb`j c`h`Xgy`cd`Y]X]b[
? ÅdnÅg`hÉdi gJ

hc`b`h][]Ub

Yb`XYh`h`Xgy`cd`Y]X]b[
? ÅdnÅg`hÉdi gJ

V1b`h][]Ub

Yb`cb`]bY`V]fg] g
? ÅdnÅg`hÉdi gJ

hf`Wh`mb

=_nci `[fUW[`Ub`i k`i b]j Yfg]hY]hgi XYfYb`j ccf`
SSSSSSSSSSSSSSSS"
7gyfY]X gnU`_`cggnU

Hð]a i b í Vx`Wh`]hf b[í]\ WWWUV`b`
hfcb[SSSSSSSSSSSSSSSSS"

Yb`gYa`Yg]Yf`
7gyfY]X gnU`_`cggnU

a`h`É

Yb`UWXYa`]gW`Uf`
7gyfY]X gnU`_`cggnU

a`hb`Ba` \`W

K`Uhn]`b`XY`VYdYf_]b[Yb`j ccf`hYk`Yf`gY`^]b[j`ccf`
gi`XYb`hYb3
A`i`b`_j`1/2`U`1g]X]1/2`c`_`fÅgnÅfY

B` \` b[\` b`W` `1a` j]` WWWc`gb` \` j]` 4b` ^` 1/4]` É3

6Yj 1bXcf`1/9 HUi `1/9



A cYh`_XY`_cd]YCb`cZXY`cf[[]bY`Y`XcW/a YbhYb`nYZ
]bX]YbYb3
8c_i a Ybh a c_

Hb]`d\]`fEb\`V b`gJc`\Umh14`] i [V8

K Uhn]`b`XY`tcY`U]b[g ccfk UfXYb]j Ub`XY
i b]j Yfg]h]h3
9[mYhYa fYj Uí `Y`Ybh_YnAg_cf

B\ b[mE Wi í i j 1/6`WUf b[í]\ W1/4`E3

NU`_`Yb`Zcfa Y`Y`tcY`U]b[`cb]j Ub[Yb3
<]j Uu`cgU`Y`b`Uh

6 bW`[]`Wc`Hb]`h `a]b\ d\ VVVÉb\`h V\`Eb[3

J ccfn]YhXY`i b]j Yfg]h]hcc`_`UWta a cXU]Y3
Gn1/2`1/9

Hf b[í]\ VV`í a`V`c`W` ` ` _`Eb[3

6Yj UhXY`Wfg g`cc`_`Yb`gU[YdYf]cXY3
; mU`cfbc`_]X gnU`

?`Í`U\ Vb1/4`mW`VUc[a`h][[Ub`h`Vh`d\`Um`\`Eb[3

N]`b`Yf`gh`X]Y`cg]Yb]j ccf`i`]hk]ggY`]b[ggh`XYbhYb
Ubi`k`i`b]j Yfg]h]h3
5 bbU`_a Y[ÁfXY`_` XÁgYž\`c[mVgYfYX]1/2`_`Ábh`_`Y`!`Y`h`ubXÉ`h]Z]nYh]b]

Hb]`W`d\]`f` \`Vd\É`_`\`1/4`g]b\`j]`f`fUc`í`]` `f` b[
b1/4`m`Um`\`Eb[3

<cY`_`Ub`_`_`XY`j`ccfi`]f` Ub[`j` Ub`a`]`b
Uba`Y`X]b[gdfcWg`VY`_`^`Yb3
5 bbU`_a Y[ÁfXY`_` XÁgYž\`c[mU`Y`Ybh_YnAg`bnc`a`cb`_`Q`Yh`Yh`!`Y`

@`1/a`gJc`Hb]`W`h` _`] a`fU`h`b`f`]`b`WU`í`b`i`]b]] V8

K Uhn]`b`XY`OU`OU`j YfY]g]Yb3
Bm`Y`j`h`X1/2`gU`_`UbVc`_`Urcg`_`Q`Yh`a`ÁbnY`_`Z`Y` `j`Uí`ÁfXY`_`XÁg

M`E`Wi`b[`Eb`b[`O`f`b[`Eb`b[`O`1/4`E3

<cY`k`Yf`_`h\`Yh`SSSSSSSSSSSS`gng]hYa`3
¥fXY`_`XÁg`U`fYbXgnYff` `

< `h` b[`SSSSSSSSSS`b\` `h` b1/6`3

WYX]hng]hYa
F`YbXgnYf`h`di`gU

h`b`W

WccfXY`]b[gng]hYa
F`YbXgnYf`h`di`gU

W`a`í`]`a

?`f]`f`]`_`Yb`_`UWXYa`]gW`UzgWf]Zhicd`\`YhY]bXY`j`Ub
a`]`b`i`]hk]ggY`]b[3
5 bbU`_a Y[_`ÁfXYnAgYž\`c[m`Y`E`Y`h`Xca`Y`bncg`Y`h]fUhiU`VgYfY`j`Á`Áb

Hb]`W`í` Vb\`b`V`b[`í`]`a`W`]`_`É\`VfUc`í`]`b1/4`m
_`\`Eb[3

6Yj 1bXcf`1/g HUBi `1/g



K Y`Y`YYfa YhcXYb`k cfXYb`Yf`[VVfi]_h3
¥fXY` XÅg`U`hUbE1/g]`gEi`gf`

71W`[] b[X m `f b[b\ `h `b1c3

N]`b`Yf`SSSSSSSSSSSS`3
¥fXY` XÅg`U`hUbE1/g]`gEi`gf`

7I`SSSSSSSSSS`\Um`\Eb[3

`Yn]b[Yb
` fU`hEi`gU

V14`[] b[

gYa]bUfg
` fU`hEi`gU

\]`h`c

hi`hcf]Ug
` fU`hEi`gU

\ `b[X`b`f]A5[

V`bZYfYb]Yg
` fU`hEi`gU

\]`b[\

K Y`Y`Wfgj`ggYb`V]YXYb`XY`g`a`a`Yf`gWcc`g`Uub3
B`mE]`Y[`mY`Ya`Y`_`1/2U`_`Eb`1/2i`fni`gc`_`ZY`_`j`ÅfXY`_`XÅg`

7I`b\`b[`_]\`U\`W`ã`Ö\`Ä`b1c3

K UbbYf`k`cfXYb`XY`Yi`Ua`Ybg[`Y\`ci`XYb3
J`]ng[`U]X`dcbhc`_`

B\`b[V14`_]`a`h`f`U`i` W`h`W`W_\`]`b1c3

K Uf`_`Ub`_]`]bZcfa`U]Y`c]Yf`U`Y`VYgW_]`VUFY
Wfgj`ggYb`j`]bXYb3
?`i`fni`gc`_`U`_`UbVgc`U`c]g]bZcfa`W`V]`_`ÅfÅgY`

H]`V`h`h`ã`h`Eb[`h]b`j`W`V_\`]\`U\`W`i`1/23

<YYZiXY`i`b]j`Yfg]h]h`Yb`gdcfh`Wbhf`i`a`3
Gdcfh`_`ÖndcbhZY`_`j`U`i`ÅfXY`_`XÅg`

7I`h`fi`b[`h`ã`h`h`Uc`W`U`f`b[`i`]\`W`Um`\`Eb[3

<cY`_`Ub`_]`h`ch`Yb`g`h`XYb`h`b]j`YfYb][`]b[`h`c`Yf`YXYb3
8]1/2Y[`mYgØYH`_`Yn]j`U`i`V`U`h`U`cn1/g

@`%`g`Uc`h]`V`h`h`Ua`[`]U`V`W`h`W`W`g]b`h`j]A53

K Uhn]`b`XY`[`Yg`W`U`h`Y`_`cg`Yb]j`ccf`Y`Y`YbgcbXY`f`ci`X
]b`Q`h`X`Q3
5`j`1/cg`U`b]j`U`i`a`Y[`Å`\`Y`h`Åg]`_`Ö`h`Åg[`Y`_`ZY`_`j`U`i`ÅfXY`_`XÅg`

7\`d`É`g]b`\`c`h`i`Q`h`1/b`\`d`\`Q`1/4`Uc`b\]A53

HUBi `1/g!`BmYj`hUbZc`ntla `c`UbX

j`]Y`b`1/a`]

6Yj 1bXcf`1g HUi `1g



K Y_Y'Yb'_Ub'_gh XYfYb'Ub'i k 'gWcc`3
BmYj _i fni gc_ZY` `j U'i 'ÁfXY_` XÁg

B[Éb'b['b1c'É]W'h \ W'f b[3

=g'Yf'Yb'd'Uhg]b[g'cYhgj ccf'a]'b'b]j YU 'hY
YdUYb3
Gn]bhZY'a Áf 'hYghZY` `j U'i 'ÁfXY_` XÁg

7í _Éh_] a 'fU'fÉb\í 'É]\Um_\Éb[3

? Ub'_bc['cj YfgWU_Y'Yb'bUf'Yb'UbXYf'b]j YU 'Ug
\Yh\i]X][Y'b]j YU 'b]Yh\Yh'↑]gY'g3
5 bbU_a Y[_ÁfXYnÁgZ\c[m'Y\YhÁ[Yg'Y'gn]bhYhj 1/2ub]

HÉ]W'h í]'fÉb\í _\Wb i 'fÉb\í \] b'h]_\Éb[
d\O\ dj]'É]\Um_\Éb[3

<YYZhi 'Yb[YXYhU]'`YfXY'WgWf]f] b[j Ub'XY
Wfgj g3
6 j YW']bZcfa 1/2'ÁfÁgY'U'bmYj hUbZc`ntla fí`

6 b'W'W'X b'W]h] hj _\i'U\ W_\Éb[3

K Uh]g\Yha U]a i a 'Uubh'gh XYbYb'dYf'_Ug3
A U]a 1/2]gfÁghj Yj _'gn'1/2 1/2U_a Y[_ÁfXYnÁgY

G'g'h]í'UWU'a h`d`1/2Uc'b\]É3

K Uh]b'XY'WgW[_VUFY'ZUW]hY'hYb']b'i k 'gWcc`3
5 n]g_c`U'1/2U'bnO'hch`Y\Yh gÁ[Y_f` `j U'i 'ÁfXY_` XÁg

7 'g j hW h'f b[W'b\ b[[É3

Cf[Ub]gYfYb'↑`Y'cc_YI WfgjYg3
?]f1/2Xi `1/2gc_ZY` `j U'i 'ÁfXY_` XÁg

'f b[W'g d'i d'W'W'W'i mb'Xi b[c b'\Um_\Éb[3

K Y_Y'dfc[fUa a Ufj]VXYb'↑`Y'Uub3
5 n]g_c`U'1/2U'U'1/2b`chidfc[fUa c_ZY` `j U'i 'ÁfXY_` XÁg

7í b\ b[W b['fÉb\ b'c3

HUi `1g!`2 grhCbXÉU_

\c`UbX

j]Yb'1/2]

=_inci 'a]^[fU[]bZcfa YfYb'cj Yf'Wí fnYb"
:]bLbgnÉfcn1/2]_O'hÁ[Y_ZY` `j U'i 'ÁfXY_` XÁg

HÉ]í b'í \]j 'W'W'\]\ W'W b[

K Y_Y'cf[Ub]gU]Yg_i bbYb'a]'b'gh X]Yg
Z]bUbVYfYb3

7 1/2h W Wb'1/2'W'h Wc'É]\ W'W b[3

5 bbU_a Y[_ÁfXYnÁgZ'a Y'm]_gnYfj YnYh_Y]bLbgnÉfcn\Uh'1/2`U'hbi `a 1/2mc_Uh

=_ \W'bccX'Uub Z]bUbVY'Y'ni `d]j ccf
SSSSSSSSSSSS"

HÉ]Wb\ 'f h'4'WÉb\ Wc'SSSSSSSSSSSSSSS"

5 bmU[]h'1/2 c[Uh'1/2_ÁfÁgY

6Yj 1bXcf`1/g HUb1 `1/g



]bgWf]j]b[g[YX

\ Wd\É

8c`c[žUa]\Yn'UbntU[] h'á c[Uh1g'gn0_gÁ[Yg

_cgYb] ccf`Yj YbgcbXYf\ci X

W]d\Ég]b\ `c h

8c`c[žUa]\Yn'UbntU[] h'á c[Uh1g'gn0_gÁ[Yg

_]bXYfcdj Ub[

W]Ba 'g] Wf `Ya

8c`c[žUa]\Yn'UbntU[] h'á c[Uh1g'gn0_gÁ[Yg

K Y`Y`g`ccfYb`gh X]YWy fnYb`n]b`Yf`VYgW]_VUW3

7Í `b\ b[`c]\ VW b[`b1c\] b`W3

8c`c[žUa]\Yn'UbntU[] h'á c[Uh1g'gn0_gÁ[Yg

HUb1 `1/g! ? ØZØX]X]d`ca U`Áj`ÁbmYg`ÁgY

\c`UbX

j]Yrb1/a]

=_nci `[fUW[`a]b`X]d`ca Uj U]XYfYb]b`OubXQ

HÉ]a i b`W b[`b\ b`V b[`Wd`WU`a Éb\ `Ø45`í h
b `VØ

? ØZØX]X]d`ca UY Zc[UXhU1gU

<YYZhi `Yb`^]ghj Ub`WQX][XYj YfhU`Yfgj ccf`\Yh
ØUWØ

6 b`W`XUb\`g]W`WU`b\ b[`X`W`[] `W`W b[`b\ bj
Ø45`b[Éb`b[`Q_\Éb[3

<]h`Yg`Zc`f`X`É`_`Z` `j`U`Í`Á`f`X`Y`_`X`Á`g

K Wf`_Ub`_]`Yb`[Y]^k WfX][\Y]XgUthgh

HÉ]W`h `m[] m`W b[`b\ b`h b[`í b[`í`í`¾

j Yf`f]`^`Yb3

5 bbU`_a Y[ÁfXY`_`XÁgYž`c`^`Y`Yh][Unc`1g`h`_Udb]`Uh`Y`ga YfhX]d`ca 1É`