

6Yj 1bXcf`1/g
@U_Uh1/g



@U_Uh1/g! @U_1/gVÁf`Ág

Ub[c`
=La `cc_]b[`Zcf`U`SSSSSSSSSSSSSSSS`hc`fYbH`
6Áf`Ág]`gn1bXÁ`_]`Y`YbhÁgY

j]Yrb1/a]
HÉ]`a i b`h i AESSSSSSSSSS"

fcca
Gn1/2`1/g]hÉdi gU

d\Í b[

ZUh#UdUfha Ybh
Gn1/2`1/g]hÉdi gU

Vb\`

gi X]c`ZUh#gi X]c`UdUfha Ybh
Gn1/2`1/g]hÉdi gU

Vb\` `%d\Í b[

XYhUMYX`lci gY
Gn1/2`1/g]hÉdi gU

b\ 1/4]AÉ[

gYa]!XYhUMYX`lci gY
Gn1/2`1/g]hÉdi gU

b\ 1/4] b`_

HffUMX`lci gY
Gn1/2`1/g]hÉdi gU

b\ 1/4]fcb[`X;mb\ 1/4

<ck `a i W`]g`h`Y`fYbhdYf`a cbh.3
6Áf`Yh]`XÉ`ZY` `j UÍ`ÁfXY`_` XÁg

;]1/2]h i AÉb\ 1/4] 1/b[`h` 1/b[`1/4]Uc`b\]AÉ3

5 fY i h`]h]Yg]bW`XYX3
5 bbU`_a Y[_ÁfXYnÁgYž`lci mUj]``Ubnž[`1/a`Ág] ÉnZc[mUgnh]g]UVÁf`Yh]`XÉVUb] UbbU`!Y

ì ç`VUc[a`VWV] b`ÉV`W`U3

<ck `a i W`]g`h`Y`XYdcg]h3
5 ``YhÁhZY` `j UÍ`ÁfXY`_` XÁg

H] b`í` hWWW`1/4]Uc`b\]AÉ3

K `Yb`Wb`=Vt`a`Y`Zcf`Uj`]Yk`]b[`3
@]k[Uh]g]X`dcbhU

?`]\`b`1/c`hÉ]`W`h` í` b`i`Ya` b\1/3

H\Y`UdUfha`Ybh]g`SSSSSSSSSSSSSSSS"
6Öhcfncn[h]j`U[mVÖhcfcnUhUb

7Bb\` `SSSSSSSSSS"

6Yj 1bXcf`1/g
@U_ \Uh1/g



Zi fb]g\YX
@U_1/g]1/2 UdchU

i m̄ i i W

i bZi fb]g\YX
@U_1/g]1/2 UdchU

_ \Eb[W'i i W

5 fY'dYngU`ck YX3
5 bbU_a Y[_ÁfXYnÁgYž\c[m_]g/2 Utc_Uh`Y\YH Y hufub]

7i Wc'd\Ád'h.ÖWb[\Um_\Eb[3

< ck `Wb`=gk]hW`h.Y`YbYf[mig`dd`]Yf3
Gnc[1/2hUij 1/2h1/gZY`]`ÁfXY_` XÁg

HÉ]W'h i]b\1/4Mb[`Wd'bBb[` b[_\Eb[3

< ck `a Ubmich.Yf`hYbUbhg`UFY`j]b[`]b`h.Y
UdUfa YbB3
5 `U_1/g]hÖW)`U_i `UZY` `j Uí `ÁfXY_` XÁg

7i VUc'b\]E b[]g b[`fcb[`Wb\ `b1/43

< ck `a Ubmj]Yk]b[g\Ug]h\UX3
5 bbU_a Y[_ÁfXYnÁgYž\ 1/2ntubj c`hU_a 1/2a Y[bÁnb]`U`U_1/g]h

7i VUc'b\]E b[]i 2 i b`Ya `b\1/23

7 Ub`=gY`Y`Wf]W` UbX[Uj]bgU`U]cb
WYW`g#Ydcfng3
5 n`UX[X][]j]`Ubn# 1/2gn1/2a `1/2`Y`ÁfÁgY

HÉ]W'h `Ya [] mh j i] b] 1/4 Uj\Um_\Eb[3

< ck `cb[]g`h.Y`YUgY3
6 ÁfYh]X hufub UZY` `j Uí `ÁfXY_` XÁg

H\]\ `b`hi Áb\ 1/4 1/4Uc` 3/4 3

< Uj Y`h.YfY`WYb`UmbY][\Vcf`X]gdi hYg3
Gnca gnÁXc__U`j Uí j]gnbcmZY`]`ÁfXY_` XÁg

i 2 VUc[] W'hf Wf W[] Ub\ b[b[]\1/2[]a
W U3

K \UhfYbcj U]cbg\Uj Y`VYb`XcbY3
>Uj É1/gc_`ZY` `j Uí `ÁfXY_` XÁg

B\ 1/4 2 W]h c`b\ b[[É

< ck `c`X]g`h.Y`Vc`]Yf`UbX`k \Yb`k Uj]h`Ugh
]bgdW`W`X3
6 j YW`]bZcfa 1/2W] `ÁfÁgY`U`Vc`Yff`

@í \]i 2 W`W Uj 1/4 b[bí 3/4b\ hibi i W_] a `fU
`1/4_\]b`c3

K \Yb`k Uj]h`UghYk]fYX3
I hc`g`]WY`W`YfY]X dcbhUZY` `j Uí `ÁfXY_` XÁg

@ `b`a W]X`ni] b[bí 3/4b\ h`1/4_\]b`c3

6Yj 1bXcf`1/g
@U_Uh/g



K \c`j Ygi dgUfg#Xck bgUfg#bYl hXccf3
5 bbU_a Y[ĀfXY_` XĀgž`_]`U_bU_`Ugnca gnĀXVUb

5]g b[` h b['f#h b[X]#VĀ`Wb\3

=g'h.YfY`U'dUf_]b['gdUW`]bWl XYX3
DUf_c`Ī\YmiZY` `j UĪ`ĀfXY_` XĀg

7Ī V_ĭ]ī ` IY_\Eb[3

< UjUbncbYj Yf`VYb'a i fXYfYX`YfY3
5 bbU_a Y[ĀfXY_` XĀgž`c[mia Y[ÒHY_!Yj U_U_]hU`U_`gVUb

7Ī U]ī ĭ`h b[V`g#h]' `ī 3#W U3

8cYgSSSSSSSSSS`k cf_3
5 bbU_a Y[ĀfXY_` XĀgž`c[miU`VYfYbX`YnĀgY_`a _`ŌXbY_!Y

SSSSSSSSSS`W`c hī b[`h h_\Eb[3

h.Y`d`i a V]b[
6 YfYbX`YnĀg

\ `h b[` b[`b W

h.Y`YUh]b[
6 YfYbX`YnĀg

\ `h b[`g]

=g'h.Y`UbX`cfX`]b`WUf[Y`cZXc]b[`fYdU]fg3
5 bbU_a Y[ĀfXY_` XĀgž`c[m_]ZY`Y`g`U`Uj Ēf]g_c_Āfh

7\ `b`1/4W`W i `f`1/4W`b] a `g UW U_\Eb[3

K \YfY`UFY`h.Y[UjUbX`Y`Vf]V]mia YhYfg3
J Ēh!`Āg[`1/4i fU`c`ĀhĀbY_`a Y[_ĀfXYnĀgY

; Uj 1/4 b[\ `ī] b' `ī 3/43

8c`mci `Uj`Y`Uomi]bgfī V]cb'a Ubi U`g`cf`k UffU]h]Yg
cb`Y`Vf]W`]h'a g3
5 bbU_a Y[_ĀfXYnĀgž`c[miU`Y`Y`fcb]_i`g`VYfYbX`YnĀgY_`Yb`j`Ub!Y[UfUbV]U`Āg`j`Ub!Y`cnn1/4 _`Ugnb1/4U]i`h`g`f]g

6 b`W`\ b[X`b`g`X`b[j`1/4`c`\1/4\`WU`b\ b[`a`h
\1/4[`ī] b`h` \Um_\Eb[3

'K \c`g`dd`Yg'h.Y`YbYf[nž`VfcUXVUbX`UbX`\ca Y
d\cbY3
Gnc`[`1/4hĪ`_ZY` `]ĀfXY_` XĀg

ī `bj`b`1/4`Wb[`Wd`W`Wb[i`b`b`Bb[` ` b[ž`W`ei`Ub[
j`1/4] b`h`c]`b\1/4

K \YfY`]g'h.Y`h.Yfa cgU3
< Zc_gnUW1/4mī`a Y[hY_]bhĀgY

ī] i `b\ h `ī 3/43

7Ub`=gY`h.Y[Uj`g`ZY`m`Vf]h]Z]WU3
; `1/4V]nrcbg]Ē]`h`Ub`Ōg`Ē] `1/4mY`_ĀfĀgY

HĒ]`W`h` `I`Ya` [] m`W` b[`b\`b`Ub`h`c`1/4[`Uī` W_\Eb[3

@U_Uh/g!`@U_`1/g`1/g`1/g`1/g
Ub[c`

j]Yrb1/4a]

6Yj 1bXcf`1/g
@U_ \Uh/g



<ck `a UbmicZYfg\Ug]h\UX3
5 bbU_`a Y[_ĂfXYnĂgyž` \ 1bntub`hYHY_`U`1b`UrchU`\ 1bfU

B\ 1/4 Wc`hi Āa m` b`f]3

<ck ``cb[`Ug]hVYyb`cb`h`Y`a Uf_YrB
5 bbU_`a Y[_ĂfXYnĂgyž`a]i HU`1đi `1/2`U`\ 1đUh

B\ 1/4 ĺ`i Bb[`h`Eb[`V1/2`VUc`~3/4`f]3

K \miUFY`h`Y`j YbXcfg`a`cj]b[3
5 bbU_`a Y[_ĂfXYnĂgyž`c[ma]Ăfh`1đi `1/2`U`\ 1đUh

H]gUc`W `b\ 1/4]Wi mb`i]3

<ck ``cb[`Ug]h`Y`g`r`Yf`j YX`h`YfY3
5 bbU_`a Y[_ĂfXYnĂgyž`a]i HU`Ă`hcthiU`h`Y` n` ``U_`i

7\ `b\ 1/4 ĺ`g b[`i` 3/4 VUc`~3/4 3

K \Uhg]bWl XYX`j`b`h`Y`gU`Y3
5 bbU_`a Y[_ĂfXYnĂgyž`c[ma]hZc[`U`a U[1/2 U`b`U`h`Ăfh`Ă`YgĀ`Ăg

H] b`a`i`U`b\ 1/4 Uc`[a`b\ b[[Ē3

<Uj`Y`h`YfY`VYyb`U`bmig`Vg]XYbW`dfcV`Ya`g3
5 bbU_`a Y[_ĂfXYnĂgyž`c[mj`c`HU`!`Y`dfcV`Āa` 1/2`U`\ 1đi`g0`mYX`Ăg`Ā`j`Y`

7i`j`b`i`g`h`Ö`b`b`1/2`l`mfUW`U3

=g]hdcgg]V`Y`h`c`Z]bX`WYUdYf`fUbgZYff]b[3
5 bbU_`a Y[_ĂfXY_` XĂgyž`c[m\c[mb`Y`YhiU`Y[c`Vg] WU`b`1đi` \ 1đb]`U`c[VĀ`Yh

7i`h`h`Ā`W`W`Wi`mb`b\ b[`f` \ `b`_`Ēb[3

K \Uh]g[c]b[`h`c`V`Y`Vi`]h]b`h`g]UfYU]b`h`Y`Z`h`fY3
UbbU_`a`Y[_ĂfXY_` XĂgyž`c[ma]`m`Yb`ZY`^`Ygn`Ăg]`dfc`Y`_`h`Y`_`Yhi`Yfj`YnbY_`U_`Öfbn`Ā`_`Yb

B\ b[[Ēg`i` W` 3/4 X`b[`h]`_`li`b`1/4 mfcb[`h` b[``U]3

7U`b`mci`HU`_`Y`h`Y`_`ci`g`c`ZZ`h`Y`a`Uf_YrB
5 bbU_`a Y[_ĂfXYnĂgyž`c[mU`\ 1đi` 1đi` 1/2]biUWU`U[mb`1/2`!`Y`

7i`h`b[b[`fUc`V`1/2`Vb\ `b`1/4ri` W\`Ēb[3

K \YfY`X]X`h`Y`_]hWYb`UbX`VU`h`fcca`h`Y`g`V`Ā`a`Y`
Zfca`3
5 bbU_`a Y[_ĂfXY_` XĂgyž`c[miU`h`Y` n` ``U_`i`_`c`j`Yh`Ā`_`U`Z`fX`gncVU]`Ăg`_`cbm`Ā`U]`Vg]Ya`d`Ā`h

;`W`b\ 1/4 W`dj`1/4 d`Ā`i`b[`h`a`i` W`ā`i`U`i` 3/4 3

K \YfY`X]X`h`Y`Z]i`YX`Z`fb]h`fY`V`Ā`a`Y`Zfca`ž`Y`["
_]hWYb`VW]b`Yhg3
5 bbU_`a Y[_ĂfXY_` XĂgyž`c`j`Yh`Ā`_`U`h`Y` n` `h`_`U`X`cb`cgc`_`U`VY`Ā`d`Ē`Y`h`V`Ö`rcfc`_`Uh

B\ b[`i`i` W`fcb[`b\ 1/4 W`ā`i`U`i` 3/4 ž`X`_`V`d3