



E1. "" 468. \$0"+G"0\*4/. ' \*0(' <\$ . &0. /"G\$+6"! X"&\*1. "2\$+%\$&6S0"(' <. 2\*(+' "' "@AAR"\*+"&"2. &K"+G"@b"0\*4/. ' \*0"+' ,9"  
\*J+"9. &\$0",&\* . \$L""E1. "2\$(6&\$9"(62. \*40"G+\$"\*1. ". &\$,9". ' \$+,6. ' "" J&0"\*1. "M+(' ". GG+\$\*8. \*J. . ' "57>:"&' /"\*1. ",+<&,"  
7=C;">&\* . \$2(,;&\$;"&' /"=. <&\*4\$\*1+02(\*&,0\*\*+" . ' <+4\$&% . " . 62,+9. . 0\*\*+"G(' (01"/. %\$. . 0\*\*1. 9"1&/"8. %4' . &\$,(. \$('(' ",G.L""  
70\*\*1+0. "0\*4/. ' \*0"6+P. /"\*1\$+4%1"\*1. "090\*. 6\*\*1. "0\*4/. ' "" 468. \$0"8. %&' "&0\*. &/9"/. <(' . "4' \*("AABL"

E1. "#\$%&' ()&\*(+' &,"- . &/ . \$01(2"2\$+%\$&6"0\*\$4%%, /"8. \*J. . ' "@AAB"&' /"@AAB"J(\*1"&"\$+\*&\*( ' %"&' /"+G. ' "&80. ' ""57>:"  
/(\$ . <+"\$, . &/ . \$01(2L""E1. "\$(%+\$&' /"&&/ . 6(<(' \* . %\$(\*9"+G"\*1. "2\$+%\$&6"J&0"&,,. /"(' \*+"c4. 0\*(+' "89". 62,+9. \$0L""E1. "  
0422+\$\*G\$+6"<+664' (\*9"840(' . 00. 0"8. %&' ""+ "/. <(' . ;"8+\*1"/4. ""+\*1. (\$"<+' <. \$' "+P. \$\*\*1. "/. %\$. . S0"P&,4. "&' /"\*1. "  
/ . <,' (' % . <+' +6(<"<+' /('+' 0L""3. P. \$&," . 62,+9. \$0\$. /4< . /"\*1. (\$"0\*4/. ' ""\*4(\*+' "G(' &' <(&,"0422+\$\*\*+"&/\$. 00\*\*1. (\$"  
+J' " / . <,' (' %"2\$+G(\*0L"

T' "@AAB;"J(\*1\$. ' . J. /"<+66(\*6. ' ""\*+"0\*\$+" %", . &/ . \$01(2"&' /"&"\$(%+\$+40"&<&/ . 6(<"<4\$\$(<4,46,"\*1. ""\$. ' /"J &0"  
&8&\* . /L""7/6(00(+ ' 0"/. P. ,+2. /" ,(' K&% . 0"/(\$ . <\*,9\*\*+"\*1. " ,+<&,"<+664' (\*9"<+,,. % . 0\*\*+"2\$+P(/. "+' %+(' %G. . /0\*\*+"\*1. "  
#-"

P&\$9(' %0\*&% .0"+G"<+62, . \*( ' %"% . ' . \$& , . /4<&\*(+' "\$. c4(\$ . 6 . ' \*0\*\*1&\*1&P. "/ . < ,&\$ . /"& ' "# - " 6&M+\$"84\*\*&\$ . "<4\$\$ . ' \* ,9"  
\* . \$6 . /"2\$. N6&M+\$0L""

E1 . \$. " J&0"&"\*+\*& , "+G"! B"# - "%\$&/4&\* . 0"( ' \*\*1 . "@A! Xl@A! B"&<&/ . 6(<"9 . &\$l""#G""1 . "Zb"4' (c4 . "6&M+\$0"/ . < ,&\$ . /"( ' \*\*1 . "

@L T'\*. \$2\$. \*\*+\$%&' ()&\*(+' &,"(004. 0"



700.006. ' \*6. \*1+/0(' P+,P. ""1. "<+,,, <\*(+' "+G"&\$\*(G&<\*0'. &\$,9(' ""1. "0\*4/. ' \*S0"/. %\$. . "<+62,. \*(+' "2\$+%\$&6"&' /"  
<+62&\$(' %""1. "\$. 04,\*0\*+"&\$\*(G&<\*0"<+,,, <\*. /"&""1. ". ' /"+G""1. "/. %\$. . "<+62,. \*(+' "2\$+%\$&6L""70"&"\$. 04,\*+G""1. "  
0\*4/. ' ""&00.006. ' \*8. %( ' (' %"&""1. "?4' (+\$, . P. ,,". &\$,9\$. 04,\*0\*&\$. "+G\*. ' "1(%1. \$""1&' "6(%1""\*92(<&,,9"8. ". V2. <\*. /"89"  
&00.006. ' ""2\$+%\$&60""1&""\$&<K""\$&/(\*+' &,"0\*4/. ' \*0\*G+\$""1. (\$ . ' \*(\$ . "G+4\$9. &\$0(' "<+,,, . %L"

E1. "( ' 0\*\$4<+\$0(' "&,, /' . \*(G(. /"#- "<+4\$0. 0"H0. . "04<<. . /(' %"2&% . 01"J(,," /0(%' "&' "&\$\*(G&<""\*+"&<<4\$&\* . ,9"\$ . G, . <""\*1. "  
/ . 0(\$ . /"6. &04\$. 6. ' ""+ ' ""1. "&00.006. ' ""\$48\$(<L""7//(\*+' &,,9;(' 0\*\$4<+\$0"J(,"0486("""1. 0. "&\$\*(G&<\*0\*+"\*1. "  
#\$\$&' )&\*(+' &,"-. &/ . \$01(2"=. 2&\$\*6. ' ""(' " . ,.<\$+ ' (<"G+\$6"J(\*1(' "&"J. . K"+""1. "G(' &,"&00(%' 6. ' ""/4. "/&\*. "G+\$"  
&\$<1(P(' %,"&' &,90(0&' /"&<<\$. /(\*&\*(+' "24\$2+0. 0L""

7' "#- "<+66(\*\*. . "+G"@NR"G&<4,\*9"6. 68. \$0"J(,"\$. P( . J""1. "&\$\*(G&<\*0\*+" / . \* . \$6(' . ""1. "" 468. \$" +G"0\*4/. ' \*0(' " . &<1"  
\$48\$(<"&\* . %+\$9"&' /"0486("""1. "<+4' \*0\*+"\*1. "#\$%&' )&\*(+' &,"-. &/ . \$01(2"=. 2&\$\*6. ' ""J(\*1(' "Zb"/&90"+G""1. ". ' /"+G"  
\*1. "2\$+<. . /(' %"0. 6. 0\*. \$L""E1. "#\$%&' )&\*(+' &,"-. &/ . \$01(2"=. 2&\$\*6. ' ""J(,"\*1. ' " / . P. ,+2""1. "2. \$<. ' \*&% . 0"&' /"  
&P. &\$% . 0"&0"/. G(' . /"+ ' ""1. "&00.006. ' ""%\$("/8. ,+J"&' /"2\$. 2&\$ . ""1. "&' ' 4&,\$. 2+\$""G+\$""1. "e' (P. \$0("9"&' /"&<<\$. /(\*(' %"  
8+/(. 0;""+' (<,4/. ""\$. ' /"2. \$G+\$6&' <. "+P. \$""(6. L""

E1(0"l . &\$S0"700.006. ' \*"

E1. "@A! XN@A! B"&00.006. ' ""\$. 2+\$""(' <+\$2+\$&\* . 0"#- "<+1+\$\*0""1&""8. %&' "( ' "32\$(' %"&' /"U&,, "+G"@A! d"&' /"G(' (01. /"G+4\$"  
0. 6. 0\*. \$0",&\*. \$(' "U&,, "@A! X"&' /"32\$(' %"@A! BL""E1. 0. ""J+"<+1+\$\*0"8. %&' "J(\*1"&""+\*&,"+G"@Z"0\*4/. ' \*0L""#G""1+0. "@Z"  
0\*4/. ' \*0;"! ,. G""\*1. "&\$ . &"/4. ""+"2&\$ . ' \*&,"<&\$ . "(004. 0;"R""+, /"M+80""1&""\$. c4(\$ . /""1. 6 ""+"6+P. "+4""+G""1. "&\$ . & ;&' /"!"

U(' &' < . '&' /"

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d"

#-R! A"	"	"	"	0	"	"
#-RZA"	"	"	"	"	0	"
#-RZZ"	"	"	"	"	0	"
#-RbA"	"	"	"	"	"	"
#-RZR"	"	"	"	"	"	"
#-RAF"	"	"	"	"	"	"
#-RA! "	"	"	"	"	"	"
#-Rdb"	"	"	"	"	"	"
#-RXb"	"	"	"	"	"	"

#-RBA"

" " " " " " "



<p>0 "</p>	<p>RL U&amp;&lt;^4&amp;,"+',9" ZL 7P+(/0^6&amp;K(' %T' G. \$. ' &lt;. 0" bl -++K0**+J&amp;&amp;\$/0"+*1. \$0**+" ( ' G,4. ' &lt;. **1. (\$'/. &lt;(0(+ " " fl -+%(<sup>&lt;</sup>+**&amp;22&amp;\$\$. ' ** " dl 7P+(/0^\$. 02+' 0(8(/(*9^G+\$" /. &lt;(0(+ ' 6&amp;K(' % " XL F92&amp;00. 0^2\$+8,. 6^0+,P(' % " *. &lt;1' (c4. 0" "</p>	<p>RL D+&lt;&amp;84,&amp;\$9^&amp;&lt;&lt;. 2^&amp;8,. ;" 84**0(' ,,&amp;&lt;K0^&lt;\$(^&lt;&amp;," " *1(' K(' %P+&lt;&amp;84,&amp;\$9 " ZL e' &lt;+6G+\$^&amp;8,. "( ' G. \$\$(' % " G\$+6^G&amp;&lt;^0 " bl T' &lt;+^ 0(0* . ' *,9^8(80. /" fl -++K0^G+\$^+*1. \$0\$ " &lt;+^ G(6&amp;*(+ ' " dl e0. 0^2\$+8,. 6^0+,P(' % " *. &lt;1' (c4. 0(' ",(6(^. /"J&amp;90 " XL e' 04\$. "1+J**+&amp;' &amp;,9). " /&amp;^&amp;"+6&amp;K. "/. &lt;(0(+^ 0 " BL _+**&lt;+^ &lt;. 2^4&amp;," " bl 3&lt;+\$. "@fNRb[FA'+ ' #"- " 700. 006. ' ** " fl =. 6+^ 0^\$&amp;*. "G&amp;6(/(&amp;\$(*9 " J(*1^8&amp;0(&lt;"+\$%&amp;' )&amp;*(+ ' &amp;," " 0^\$4&lt;^4\$. 0;"&lt;+^ &lt;. 2^0^&amp;' /" *. \$60 " RL \&amp;0^,(** . " +\$** + " 4' /. \$0^&amp;' /(' %"+G^P&amp;\$(&amp;8,. 0 " ( ' P+,P(' %(' /P(/4&amp;,0;" " %\$+420^&amp;' /**1. "J 1+,. " +\$%&amp;' )&amp;*(+ ' " ZL \&amp;0^,(** . " +\$** + "G&amp;6(/(&amp;\$(*9 " J(*1^+\$%&amp;' )&amp;*(+ ' &amp;,"&lt;1&amp;' % . " (004. 0 "</p>	<p>RL 3. . K0^/.. 2. \$ " 4' /. \$0^&amp;' /(' %"+G^0(*4&amp;*(+ ' " ZL _ . 4^\$&amp;,"0^&amp;' (' %&amp;,". \$ ' &amp;*(P. " P(. J2+( ' ^0^J(*1+4**8(&amp;0 " bl -. &amp;/0"+*1. \$0(' **1(' K(' % " &amp;' /"/. &lt;(0(+^ 0 " fl e^('). 0^2\$+8,. 6^0+,P(' % " *. &lt;1' (c4. 0^&lt;+^ 0(0* . ' *,9 " dl &gt;+^ &lt;. 2^4&amp;,"&amp;' &amp;,90(0 " "</p>
<p>V' 32^4., ' 3\$'+0) *+, ' \$-, .\$/ ' 40T0 G5, ' +20 0 "</p>	<p>!L 3&lt;+\$. "8. ,+J"@f[FA'+ ' #"- " 700. 006. ' ** " @L =. 6+^ 0^\$&amp;*. "G&amp;6(/(&amp;\$(*9 " J(*1^8&amp;0(&lt;"+\$%&amp;' )&amp;*(+ ' &amp;," " 0^\$4&lt;^4\$. 0;"&lt;+^ &lt;. 2^0^&amp;' /" *. \$60 " RL \&amp;0^,(** . " +\$** + " 4' /. \$0^&amp;' /(' %"+G^P&amp;\$(&amp;8,. 0 " ( ' P+,P(' %(' /P(/4&amp;,0;" " %\$+420^&amp;' /**1. "J 1+,. " +\$%&amp;' )&amp;*(+ ' " ZL \&amp;0^,(** . " +\$** + "G&amp;6(/(&amp;\$(*9 " J(*1^+\$%&amp;' )&amp;*(+ ' &amp;,"&lt;1&amp;' % . " (004. 0 "</p>	<p>BL 3&lt;+\$. "@fNRb[FA'+ ' #"- " 700. 006. ' ** " fl =. 6+^ 0^\$&amp;*. 0 " 4' /. \$0^&amp;' /(' %"+G " +\$%&amp;' )&amp;*(+ ' &amp;,"0^\$4&lt;^4\$. 0;" " &lt;+^ &lt;. 2^0^&amp;' /**. \$60^&amp;0^(" " \$. ,&amp;*. 0**+J " " +\$%&amp;' )&amp;*(+ ' " dl T0^&amp;8,. **+&amp;22,9**1. (\$ "</p>	

Zl 10^8 << . 2 \* ( ' % + 6 ^ 2 . + 2 , . " J ( \* 1 " / ( P . \$ 0 . " 8 & < K % \$ + 4 ' / 0 ' & ' / " + 2 ( ' ( + ' 0 ' & ' / 0 . . K 0 ^ \* + " < \$ . & \* . " & ' ( ' < , 4 0 ( P . " . ' P ( \$ + ' 6 . ' \* " bl \ & 0 ' & ' " 4 ' / . \$ 0 ' & ' / ( ' % \* \* 1 & \* \* + ' . \$ 0 + J ' ' . V 2 . \$ ( ' < . 0 " ( 6 2 & < \* \* ( ' \* . \$ & < ( + ' 0 " J ( \* 1 " + \* 1 . \$ 0 "

#P. \$&,,,\*1. "#-2\$+%\$&6"<+' 4. 0"\*+"8. "&"14%. "04<<. 00L""E1. "G&<4,\*9"1&0"J+\$K. /"1&\$/"\*+"\$. P(0. "\*1. (\$"<+4\$0. 0"\*+" 6. . \*\*\*1. "2\$+%\$&6"%+&,0L"U+\$\*\*1. "2&0\*"0. P. \$&,"&<&/ . 6(<"9. &\$0\*\*1. "G&<4,\*9"G. . ,\*\*1. "<+4\$0. 0"&\$ . "8+\*1\*\*&4%1\*\*&' /" \$ . <. (P. /"&0"/. 0(\$ . /"\*+"6&V(60). \*\*1. "g\*\*&(' 6. ' \*"+G"+4\$ ,. &\$' (' %"+&,0L""70"&\$. 04,\*,\*1. \$. "1&0"8. . ' "6+\$. . 621&0(0" (' \*1. ",&0\*G. J"9. &\$0"+' "&/'/' %". ,. <\*(P. "&' /"02. <(&,"\* +2(<"<+4\$0. 0"\*+"\*1. "#-"+GG. \$(' %0L""E1. "Q,+8&,-. &/ . \$01(2"<+4\$0. " 1&0"2\$+P. ' "&"%\$. &"04<<. 00" +\*\*+' ,9"/4. "\*\*+"<+' \* . ' \*;"84\*\*&,0+"/4. "\*\*+"/\*0&\*(069(' %"0\*4/. ' \*S0T\_RbA"\$ . c4(\$ . 6. ' \*L""7" 5. \$02. <\*(P. 0(' "-. &/ . \$01(2"<+4\$0. "(0" +J"+GG. \$. /"\*+"&,,+J"0\*4/. ' \*0\*\*+" . V2,+\$. "&"0(' %,. . ,. &/ . \$(' "/. 2\*1L""7" - . &/ . \$01(2"&' /"5+24,&\$">4,\*4\$. "<+4\$0. "1&0"&\*\*\$&<\*. /"&"%\$. &\*"/. &,"+G"(' \* . \$ . 0\*"G\$+6"0\*4/. ' \*0"+G"&,"&% . 0"&<+\$+00" <&6240L""F+\*1\*\*1. ",&\*\* . \$"<+4\$0. "6&9"<+4' \*\*&0"&"0\*4/. ' \*S0T\_@b! "\$ . c4(\$ . 6. ' \*L""E1. "+' ,9"<+4\$0. "\*\*1&\*"<+' \*(' 4. 0"\*+" /\$&J",(\*, . "( \* . \$ . 0\*\*"(' "C(' /G4,-. &/ . \$01(2L""n. \$+"0\*4/. ' \*S0". ' \$+,,. / ,&0\*\*9. &\$"0+"("1&0"8. . ' "24,,. /"G\$+6"64\*4\$. " +GG. \$(' %0L"

a(\*1(' "I. &\$"3<+\$. 0"

$$\frac{1.8 \times 10^3 + 1.8 \times 10^3}{3 \times 10^3}$$

$$= \frac{3.6 \times 10^3}{3 \times 10^3} = 1.2$$



@I E1. "=+4%"&' /"=(&' . "#8. \$1. ,6&' ">. ' \*.\$"G+\$"- . &/ . \$01(2"5. \$G+\$6&' <. "J&0"&%&(' "%(P. ' "\$. /4<. /"2\$(+\$(^9"89"  
6&' &%. 6. ' \*L""E1(0"\$\$. ' /"J(,,"<+ ' \*( ' 4. "G+\$"\*1. "G+\$ . 0. . &8. , "G4\*4\$. L""T"/+. 0"+GG. "\$%\$. &\*"+22+\$\*4' (\*9"G+\$"  
<+,,&8+\$&\*(+ ' "0+6. /&9L""  
RI : 0\*&8,(01" . J"/(\$ . <\*(+ ' H01"G+\$"#-'(' "0422+\$"+G". GG+\$\*0(' ("\*0" . J"1+6. ;"\*1. "E&8+\$"3<1++ ,"+G"F40(' . 00L"  
ZI -++K"G+\$"J&90"\*+"(' <\$ . &0. " . '\$+,,6. ' \*\*8. G+\$ . \*\*1. "#-"2\$+%&&6"(0" +",+ '%. \$"040\*&(' &8. ,L"