AILET

Quantitative Techniques: Practice Paper on Time and Work

Aditya Anand · 22 Jun 2020

Quantitative Techniques: Practice Paper on Time and Work

.docxpressoPlugin { font-size: 83.35%; } .h5p_layout { box-sizing: content-box !important; } .h5p_layout *{ float: none; text-align: initial; box-sizing: border-box; } /*to make sure that floating elements are always inside the document bounds*/ .h5p_layout:after { content: " "; display: block; height: 0; clear: both; visibility: hidden; } /* a default layout for documents without maste styles */ .h5p_default_layout { margin-top: 3.6rem; margin-left: 8.50464rem; margin-bottom: 3.6rem; margin-right: 8.50464rem; writing-mode: lr-tb; } /*hack for IE */ wbr:after { content: "\00200B"; } /*hack to get some extra top margin for anchors if needed*/ .h5p_layout span[id^="_Toc"]{ padding-top: 10px; margin-top: -10px; } /* Remove unwanted numbering styles */ .h5p_layout .removeNumbering:before{ content: initial !important; display: none; all: initial !important; } /* give zero default top and bottom paddings for paragraphs*/ .h5p_layout p { color: #000000; line-height: 1; margin-top: 0; margin-bottom: 0; } .h5p_layout span { color: #000000; font-weight: normal; } .h5p_layout span.dropcap { color: inherit; font-family: inherit !important; } .h5p_layout h1, .h5p_layout h2, .h5p_layout h3, .h5p_layout h4, .h5p_layout h5, .h5p_layout h6 { margin-top: 0; margin-bottom: 0; font-family: inherit; font-weight: 500; line-height: 1; color: inherit; } /* give zero default top and bottom paddings for paragraphs in tables*/ .h5p_layout table p { margin-top: 0; margin-bottom: 0; } .h5p_layout ul, .h5p_layout ol { list-style-type: none; margin-top: 0; margin-bottom: 0.5em; padding-left: 0; } .h5p_layout ul li, .h5p_layout ol li { list-style-type: none; margin-top: 0; margin-bottom: 0.5em; } .h5p_layout li p { margin-top: 0; margin-bottom: 0; } .h5p_layout table { border: none; } .h5p_layout td { vertical-align: top; border: none; } .h5p_layout th { vertical-align: top; border: none; } .h5p_layout div { margin-bottom: 10pt; } .h5p_layout img { margin: 0; padding: 0; } .h5p_layout ul ul { margin-top: 0; margin-bottom: 0; } .h5p_layout li { margin-top: 0; margin-bottom: 0; list-style-type: none !important; } .h5p_layout ul, .h5p_layout ol { list-style-type: none !important; } .h5p_layout td[data-sorting] p:before, .h5p_layout th[data-sorting] p:before { content: ' '; padding-right: 16px; background: url(

background-position: left center; background-repeat: no-repeat; } .sortDecorator { border-bottom: 3px solid #b70000 !important; } /* This is a spacial class designed to remove unwanted bullets when a li has ul as its first child*/ .h5p_layout .removeBullet:before { content: none !important; } /*responsive tables*/ .h5p_layout div.dxoResponsiveTable{ margin: 0 !important; padding: 0 !important; overflow-x: auto !important; overflow-y: hidden; } /* chart tooltips */ .c3-tooltip-container td.name { white-space: nowrap; } /* External services*/ .h5p_layout iframe { resize: vertical; border: 1px solid #fff; } .h5p_layout div.youtube { position:relative; padding-bottom:56.25%; height:0; overflow:hidden; background-color: transparent; } .h5p_layout div.youtube iframe { resize: none; position:absolute; top:0; left:0; width:100%; height:100%; } div#h5p_6a7c0ad421d2f ul.LFO1 {counter-reset: ulLFO1_1;margin-left: 0;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 ul {counter-reset: ulLFO1_2;margin-left: -0.25in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li {text-indent: -0.25in;margin-left: 36pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li:before {counter-increment: ulLFO1_1;content: counter(ulLFO1_1, decimal) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO1 ul ul {counter-reset: ulLFO1_3;margin-left: -0.75in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li {text-indent: -0.25in;margin-left: 72pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li:before {counter-increment: ulLFO1_2;content: counter(ulLFO1_2, lower-latin) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO1 ul ul ul {counter-reset: ulLFO1_4;margin-left: -1.375in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li {text-indent: -0.125in;margin-left: 108pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li:before {counter-increment: ulLFO1_3;content: counter(ulLFO1_3, lower-roman) ". ";margin-left: -0.125in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO1 ul ul ul ul {counter-reset: ulLFO1_5;margin-left: -1.75in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li {text-indent: -0.25in;margin-left: 144pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li:before {counter-increment: ulLFO1_4;content: counter(ulLFO1_4, decimal) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO1 ul ul ul ul ul {counter-reset: ulLFO1_6;margin-left: -2.25in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li ul li {text-indent: -0.25in;margin-left: 180pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li ul li:before {counter-increment: ulLFO1_5;content: counter(ulLFO1_5, lower-latin) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO1 ul ul ul

ul ul ul {counter-reset: ulLFO1_7;margin-left: -2.875in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li ul li ul li {text-indent: -0.125in;margin-left: 216pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li ul li ul li:before {counter-increment: ulLFO1_6;content: counter(ulLFO1_6, lower-roman) ". ";margin-left: -0.125in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO1 ul ul ul ul ul ul ul {counter-reset: ulLFO1_8;margin-left: -3.25in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li ul li ul li ul li {text-indent: -0.25in;margin-left: 252pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li ul li ul li ul li:before {counter-increment: ulLFO1_7;content: counter(ulLFO1_7, decimal) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO1 ul ul ul ul ul ul ul ul {counter-reset: ulLFO1_9;margin-left: -3.75in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li ul li ul li ul li ul li {text-indent: -0.25in;margin-left: 288pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li ul li ul li ul li ul li:before {counter-increment: ulLFO1_8;content: counter(ulLFO1_8, lower-latin) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO1 ul ul ul ul ul ul ul ul ul {counter-reset: ulLFO1_10;margin-left: -4.375in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li ul li ul li ul li ul li ul li {text-indent: -0.125in;margin-left: 324pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO1 li ul li ul li ul li ul li ul li ul li ul li ul li:before {counter-increment: ulLFO1_9;content: counter(ulLFO1_9, lower-roman) ". ";margin-left: -0.125in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO2 {counter-reset: ulLFO2_1;margin-left: 0;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 ul {counter-reset: ulLFO2_2;margin-left: -0.25in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li {text-indent: -0.25in;margin-left: 36pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li:before {counter-increment: ulLFO2_1;content: counter(ulLFO2_1, decimal) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO2 ul ul {counter-reset: ulLFO2_3;margin-left: -0.75in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li {text-indent: -0.25in;margin-left: 72pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li:before {counter-increment: ulLFO2_2;content: counter(ulLFO2_2, lower-latin) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO2 ul ul ul {counter-reset: ulLFO2_4;margin-left: -1.375in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li {text-indent: -0.125in;margin-left: 108pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li:before {counter-increment: ulLFO2_3;content: counter(ulLFO2_3, lower-roman) ". ";margin-left: -

0.125in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO2 ul ul ul ul {counter-reset: ulLFO2_5;margin-left: -1.75in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li {text-indent: -0.25in;margin-left: 144pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li:before {counter-increment: ulLFO2_4;content: counter(ulLFO2_4, decimal) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO2 ul ul ul ul ul {counter-reset: ulLFO2_6;margin-left: -2.25in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li ul li {text-indent: -0.25in;margin-left: 180pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li ul li:before {counter-increment: ulLFO2_5;content: counter(ulLFO2_5, lower-latin) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO2 ul ul ul ul ul ul {counter-reset: ulLFO2_7;margin-left: -2.875in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li ul li ul li {text-indent: -0.125in;margin-left: 216pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li ul li ul li:before {counter-increment: ulLFO2_6;content: counter(ulLFO2_6, lower-roman) ". ";margin-left: -0.125in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO2 ul ul ul ul ul ul ul {counter-reset: ulLFO2_8;margin-left: -3.25in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li ul li ul li ul li {text-indent: -0.25in;margin-left: 252pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li ul li ul li ul li:before {counter-increment: ulLFO2_7;content: counter(ulLFO2_7, decimal) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO2 ul ul ul ul ul ul ul ul {counter-reset: ulLFO2_9;margin-left: -3.75in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li ul li ul li ul li ul li {text-indent: -0.25in;margin-left: 288pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li ul li ul li ul li ul li:before {counter-increment: ulLFO2_8;content: counter(ulLFO2_8, lower-latin) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c0ad421d2f ul.LFO2 ul ul ul ul ul ul ul ul ul {counter-reset: ulLFO2_10;margin-left: -4.375in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li ul li ul li ul li ul li ul li {text-indent: -0.125in;margin-left: 324pt;font-size: 11pt;} div#h5p_6a7c0ad421d2f ul.LFO2 li ul li ul li ul li ul li ul li ul li ul li ul li:before {counter-increment: ulLFO2_9;content: counter(ulLFO2_9, lower-roman) ". ";margin-left: -0.125in;display: table-cell;} div#h5p_6a7c0ad421d2f p.P1 {border-top: none !important;border-left: none !important;border-bottom: 0.0138in solid #4472C4 !important;border-right: none !important;padding-top: 0in !important;padding-left: 0in !important;padding-bottom: 0.0555in !important;padding-right: 0in !important;margin-bottom:

0.2083in !important;line-height: 1 !important;break-before: page !important;text-align: center !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P1 span {hyphenate: false;font-family: Calibri Light;color: #323E4F;letter-spacing: 0.0034in;font-size: 26pt;hyphenate: false;font-family: Times New Roman;font-weight: bold;} div#h5p_6a7c0ad421d2f p.P2 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P2 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P3 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P3 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P4 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P4 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P5 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P5 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P6 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P6 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P7 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T8 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T9 {font-family: Times New Roman !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T10 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T11 {font-family: Times New Roman !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T12 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P13 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P13 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P14 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P14 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P15 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P15 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P16 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P16 span

{hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P17 {text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T18 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T19 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P20 {text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P20 span {hyphenate: false;font-family: Times New Roman;font-weight: bold;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P21 {margin-left: 0.5in !important;text-align: justify !important;margin-bottom: 0in !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P21 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P22 {text-align: justify !important;margin-bottom: 0in !important;text-indent: 0.5in !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T23 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T24 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P25 {text-align: justify !important;margin-bottom: 0in !important;text-indent: 0.5in !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P25 span {hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P26 {text-align: justify !important;margin-bottom: 0in !important;text-indent: 0.5in !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P26 span {hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P27 {text-align: justify !important;margin-bottom: 0in !important;text-indent: 0.5in !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P27 span {hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P28 {text-align: justify !important;margin-bottom: 0in !important;text-indent: 0.5in !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P28 span {hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P29 {text-align: justify !important;margin-bottom: 0in !important;text-indent: 0.5in !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P29 span {hyphenate: false;font-family: Times New Roman;font-weight: bold;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P30 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P30 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P31 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T32 {font-family: Times New Roman !important;font-

weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T33 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P34 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P34 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P35 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P35 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P36 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P36 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P37 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P37 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P38 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P38 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P39 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P39 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P40 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T41 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T42 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P43 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P43 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P44 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P44 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P45 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P45 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P46 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P46 span {hyphenate: false;hyphenate: false;font-family: Times New

Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P47 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P47 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P48 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P48 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P49 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P49 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P50 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P50 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P51 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P51 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P52 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T53 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T54 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T55 {font-family: Times New Roman !important;font-style: italic !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T56 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P57 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T58 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T59 {font-family: Times New Roman !important;font-style: italic !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T60 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T61 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T62 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P63 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P63 span {hyphenate: false;hyphenate: false;font-family:

Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P64 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P64 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P65 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P65 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P66 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T67 {font-family: Times New Roman !important;font-weight: bold !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T68 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P69 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P69 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P70 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P70 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P71 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P71 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P72 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T73 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P74 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P74 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P75 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T76 {font-family: Times New Roman !important;font-weight: bold !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T77 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T78 {font-family: Times New Roman !important;font-style: italic !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T79 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P80 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T81 {font-family: Times New Roman !important;font-

style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T82 {font-family: Times New Roman !important;font-style: italic !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T83 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P84 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T85 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T86 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T87 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T88 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P89 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T90 {font-family: Times New Roman !important;font-weight: bold !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T91 {font-family: Times New Roman !important;font-weight: bold !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T92 {font-family: Times New Roman !important;font-weight: bold !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T93 {font-family: Times New Roman !important;font-weight: bold !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P94 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T95 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T96 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P97 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P97 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P98 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P98 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P99 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P99 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f

p.P100 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T101 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T102 {font-family: Times New Roman !important;font-style: italic !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T103 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T104 {font-family: Times New Roman !important;font-style: italic !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T105 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P106 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P106 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P107 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T108 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T109 {font-family: Times New Roman !important;font-style: italic !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T110 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T111 {font-family: Times New Roman !important;font-style: italic !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T112 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P113 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P113 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P114 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T115 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T116 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T117 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T118 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f

span.T119 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P120 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P120 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P121 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T122 {font-family: Times New Roman !important;font-weight: bold !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T123 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P124 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P124 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P125 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T126 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T127 {font-family: Times New Roman !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T128 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P129 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T130 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T131 {font-family: Times New Roman !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T132 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P133 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P133 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P134 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T135 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T136 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T137 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T138 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f

span.T139 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P140 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P140 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P141 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T142 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T143 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P144 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P144 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P145 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P145 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P146 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P146 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P147 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P147 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-weight: bold;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P148 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T149 {font-family: Times New Roman !important;font-weight: bold !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T150 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f span.T151 {font-family: Times New Roman !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.P152 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P152 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P153 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P153 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P154 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P154 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f

p.P155 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P155 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P156 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P156 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P157 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P157 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P158 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P158 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-style: italic;font-size: 12pt;} div#h5p_6a7c0ad421d2f p.P159 {margin-left: 0.5in !important;text-align: justify !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.T160 {font-family: Times New Roman !important;font-weight: bold !important;font-style: italic !important;font-size: 12pt !important;} div#h5p_6a7c0ad421d2f p.Normal {font-size: 11pt;} div#h5p_6a7c0ad421d2f p.Normal span {hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f span.DefaultParagraphFont {font-size: 11pt;} div#h5p_6a7c0ad421d2f p.ListParagraph {margin-left: 0.5in !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.ListParagraph span {hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.Title {border-top: none !important;border-left: none !important;border-bottom: 0.0138in solid #4472C4 !important;border-right: none !important;padding-top: 0in !important;padding-left: 0in !important;padding-bottom: 0.0555in !important;padding-right: 0in !important;margin-bottom: 0.2083in !important;line-height: 1 !important;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.Title span {hyphenate: false;font-family: Calibri Light;color: #323E4F;letter-spacing: 0.0034in;font-size: 26pt;hyphenate: false;} div#h5p_6a7c0ad421d2f span.TitleChar {font-family: Calibri Light !important;color: #323E4F !important;letter-spacing: 0.0034in !important;font-size: 26pt !important;} div#h5p_6a7c0ad421d2f div {font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P17 span {hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P22 span {hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P7 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P31 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P40 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P52 span {hyphenate: false;hyphenate: false;hyphenate:

false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P57 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P66 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P72 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P75 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P80 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P84 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P89 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P94 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P100 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P107 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P114 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P121 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P125 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P129 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P134 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P141 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P148 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f p.P159 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c0ad421d2f table {margin-left: 0in;border-collapse: collapse;writing-mode: lr-tb;font-size: 11pt;} div#h5p_6a7c0ad421d2f table tr {height: 0in;keep-together: auto;font-size: 11pt;} div#h5p_6a7c0ad421d2f table td, table th {background-color: transparent;vertical-align: top;wrap-option: wrap;font-size: 11pt;} div#h5p_6a7c0ad421d2f p {keep-with-next: auto;keep-together: auto;widows: 2;orphans: 2;break-before: auto;border: none;text-align: left;writing-mode: lr-tb;margin-bottom: 0.1111in;line-height: 1.07;background-color: transparent;font-size: 11pt;} div#h5p_6a7c0ad421d2f p span {font-family: Calibri;font-weight: normal;font-style: normal;text-transform: none;font-variant: normal;text-shadow: none;letter-spacing: normal;font-size: 11pt;background-color: transparent;text-decoration:

none;text-decoration-color: font-color;language: en;country: IN;hyphenate: true;}

Quantitative Techniques: Practice Paper on Time and WorkAkira can do paint a room in 5 days but with the help of Heer, she can do the work in 3 days. How long would Heer take to paint the room alone?P takes twice the time than Q to complete the work and if together work they finish the task in 3 days. How much time would P take to complete the task?A and B can do the work in 20 days, B and C can do the work in 12 days while C and A can do the work in 15 days. If they work together then how many days they can do the work.Ram can do 2/5 work in 10 days then he calls in Shyam to complete the rest of the work and they complete the job in 9 days. How long Shyam would take to complete the job alone? P and Q can do a job in 45 and 40 days work in respectively. They started working together and P left the work after some days and Q completed the remaining work in 25 days. How many days did P work with Q?A can-do 1/6th of the work in 4 days while B can do 1/4th of the same work in 4 days. How much A would get paid out of Rs. 100 if they worked together?A alone can do a work in 9 days while B can do it in 12 days. If starting from A they worked on alternate days then when will be the work completed?Eight men can do a work in 15 days. After 7 days 3 of them left, In how many days the remaining work will be completed? If 16 men and 12 boys can do a work in 5 days; 24 men and 13 boys can do a work in 4 days then Find the ratio of their daily work done?-P can do a wok in 15 days, Q can do the same work in 10 days. They work for 5 days and then c completes the work in 3 days. If a total of Rs. 1500 was paid for the job than how much were P and R paid in one day?NOTE: There can be different approaches to a problem, In this article only ratio based approach has been used to avoid confusion and I would suggest to use the similar method all the time and work problem because with change one might end up marking the wrong answer. But if with your logic your answer is right throughout then please stick to it. Also, there is no specific way to solve a problem in Time and work the only trick is to solve using logic.Answer and Solutions:**Ans: 7.5 days**Solution: Let x be no. of days Heer would take to complete the work. Amount of work Akira can do in one day = 1/5Akira and Heer together can do the work in 3 daysIn one day Akira and Heer can do 1/3 of work. Hence, 1/5 + 1/ x = 1/ 31/x = 1/3 – 1/5 = 2/15x = 15/2 = 7.5 days**Ans: 9 days**Solution: Let x be the no. of days Q takes to complete the work, then the time taken by P would be 2x. In one day P can do 1/2x work while Q can do 1/x work.Together they can do 1/3 of the work.1/2x + 1/x = 1/3 Solving above equation would give x = 4.5 daysHene P can do the work in 2x days = 2*4.5 = 9 days.**Ans: 10 days**Solution: Let days taken by A, B and C be a, b and c respectively.A and B together can do a work in 20 days hence, eq1: 1/a+ 1/b = 1/20 B and C together can do a work in 12 days hence, eq2: 1/b+ 1/c = 1/12A and C together can do a work in 15 days hence, eq3: 1/a+

1/c = 1/15As we need to find their cumulative time we will add the above equations 1 2 and 3,1/a + 1/b + 1/b + 1/c + 1/a + 1/c = 1/20 + 1/12 + 1/15 2(1/a + 1/b + 1/c) = (3+5+4) / 601/a + 1/b + 1/c = 1/10Hence A B and C can together work 10 days to complete the job**Ans: 100 days** Solution: Ram did 2/5th of the work in 10 days, therefore he could complete the job in 10*5/2 = 25 days. One day work done by Ram = 1/25For remaining work i.e., 3/5th 0of the work was done by both Ram and Shyam in 9 days. Thus If they worked whole work together from the beginning they would have completed the work in 9*5/3 days = 15 days. Their together one day work = 1/15Work done by Shyam in one day = 1/15 – 1/25 = 1/100Hence Shyam would take 100 days to complete the work.**Ans: 135/17 days**Solution: Let the no. of days P and Q worked together be x days.P's one day work = 1/45; Q's one day work = 1/40As the rest of the work is done by Q and initial was done by P and q together hence they ultimately complete the work.(1/45 + 1/40)1/x + 25/40 = 1Solving the above equation gives x=135/17 days.**Ans: Rs. 40**Solution: A can-do 1/6th work in 4 days hence complete work in 24 days; Similarly B would take 16 days to complete the work.Together they would do 1/24 + 1/16 = 5/48 work in one day. Hence 48/5 days to complete the work i.e., 48/5 * 1/24 would be A's part of work = 2/5th work.Therefore payment would be 2/5th of Rs. 100 = Rs. 40Ans: 11th DaySolution: One day work of A = 1/9One day work by B = 1/12; In pair, if we count the days they can complete 1/9+1/12= 7/36 work in 2 days.Hence in 4 pairs i.e., 8 days they will complete 7*4/36 = 7/9 part of work.Remaining work = 1-7/9 = 2/9 On 9th day a's turn will be there hence he will do 1/9th work, hence remaining work = 2/9-1/9 = 1/9 On 10th day B will work and he will do 1/12th work, as 1/12 is less than 1/9 Hence remaining work = 1/9 – 1/12 = 1/36As 1/36 is less than 1/9 when a will work on 11th day he will complete the work.**Ans: 64/5 days** Solution: 8 men take 15 days to complete the work,Work done by 1 man in 1 day = 1/8*15 = 1/120For 7 days all 8 men worked hence work done in 7 days = 1*7*5/120 = 7/15th workRemaining work =1-7/15 = 8/153 men left only 5 workings hence 1*5/120 = 1/24 8/15th work is done by the remaining 5 workers in 8/15 *24 = 64/5 days**Ans: 1:2** Solution: Let one day's one man work done be x and one day one boy's work be y,Then, 16x +12y = 5 & 24x +13y = 4Solving above equations, x = 1/200 and y = 1/100Hence the ratio of work done in one day by man to a boy = 1:2**Ans: Rs. 188.33**Solution: One day P's work = 1/15One day Q's work = 1/10Part of work done by P = 1/15 * 5 = 1/3 Part of Work done by Q = 1/10 * 5 = 1/2 Part of work done by R = 1 - 1/3 - 1/2 = 1/6So ratio of their share's in wages = 1/3 : 1/2 : 1/6 = 2:3:1P's Share = 2/6 * 1500 = 500; P worked for 5 day hence daily wage = 500/5 = Rs.100R's Share = 1/6 *1500 = 250; R works for 3 days hence daily wage = 250/3 = Rs. 83.33P and R's daily wage = Rs.100+83.33 = Rs. 188.33(function($) { //footnotes

$('.defaultNote').children(":first").css('cursor', 'pointer'); $('.defaultNote').children(":first").click(function(){ var gotoID = '#' + $(this).parent().attr('id'); $('html, body').animate({ scrollTop: $('a[href="' + gotoID + '"]').offset().top - 60, }, 250, 'linear') }); }(jQuery)); var numFormat = ",."; (function($) { "use strict"; //do some cleaning on load var sortCells = $('td[data-sorting], th[data-sorting]'); sortCells.each(function(){ var first = $(this).text().trim().charAt(0); if (first == '@'){ var oldHTML = $(this).html(); var newHTML = oldHTML.replace('@', ''); $(this).html(newHTML); } }); function sortingTable(node, pos, ordBy){ var rows = node.children('tbody').children('tr').get(); rows.sort(function(a, b) { var X = $(a).children('td').eq(pos).text().toUpperCase(); var Y = $(b).children('td').eq(pos).text().toUpperCase(); if (numFormat != '.,'){ //we are dealing with a different locale and we need to do some //transformation in numbers X = convert2number(X); Y = convert2number(Y); } else { X = X.replace(/,/g, '').replace(/ /g, ''); Y = Y.replace(/,/g, '').replace(/ /g, ''); } var currencies = ['$', '¥', '£', '€']; var arrayLength = currencies.length; var XX = X; var YY = Y; for (var i = 0; i < arrayLength; i++) { XX = XX.replace(currencies[i], ''); YY = YY.replace(currencies[i], ''); } if (!isNaN(XX) && !isNaN(YY)){ var floatXX = parseFloat(XX); var floatYY = parseFloat(YY); return -(floatYY-floatXX) * ordBy; } else if (!isNaN(XX) && isNaN(YY)){ return -1 * ordBy; } else if (isNaN(XX) && !isNaN(YY)){ return ordBy; } else { if(X < Y) { return -1 * ordBy; } if(X > Y) { return 1 * ordBy; } return 0; } }); $.each(rows, function(index, row) { node.children('tbody').append(row); }); } function removeTableCellDecoration() { $("td[data-sorting], th[data-sorting]").removeClass('sortDecorator'); } //unbind the click event just in case we are loading more than one document $("td[data-sorting], th[data-sorting]").off('click'); $("td[data-sorting], th[data-sorting]").click(function(){ removeTableCellDecoration(); $(this).addClass('sortDecorator'); //get desired ordering var ordering = $(this).attr('data-sortOrdering'); if (ordering == 'ASC'){ var ordBy = -1; $(this).attr('data-sortOrdering', 'DESC'); } else { var ordBy = 1; $(this).attr('data-sortOrdering', 'ASC'); } var cellPosition = $(this).prevAll().length; var table = $(this).parents('table:first'); sortingTable(table, cellPosition, ordBy); }); function convert2number(str) { str = str.trim(); if (str.match(/^\d+/)) { //we have to take special care when the thousand separators are '.' var result_0 = str.replace(/\./g, '_@_'); var result_1 = result_0.replace(window.numFormat[0], '.'); var result = result_1.replace(/_@_/g, ''); result .replace(/ /g, ''); return result; } else { return str; } } }(jQuery));

Read the theory on Simple and Compound Interest here.

Read our other posts on Quantitative Techniques Question Pattern and Test Papers.

Click here to learn about Quantitative Techniques Question Pattern from official CLAT website.