

Questions to Practice Mixed Concepts of Quantitative Techniques

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.docpressoPlugin { 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()
}
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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_6a7c08da74c8c ul.LFO1 {counter-reset: ulLFO1_1;margin-left: 0;padding: 0; list-style-
type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO1 ul {counter-reset:
ulLFO1_2;margin-left: -0.25in;padding: 0; list-style-type: none;font-size: 11pt;}
div#h5p_6a7c08da74c8c ul.LFO1 li {text-indent: -0.25in;margin-left: 36pt;font-size: 11pt;}
div#h5p_6a7c08da74c8c ul.LFO1 li:before {counter-increment: ulLFO1_1;content:
counter(ulLFO1_1, decimal) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c08da74c8c
ul.LFO1 ul ul {counter-reset: ulLFO1_3;margin-left: -0.75in;padding: 0; list-style-type: none;font-
size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO1 li ul li {text-indent: -0.25in;margin-left: 72pt;font-
size: 11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c ul.LFO1 ul ul ul {counter-reset: ulLFO1_4;margin-left: -1.375in;padding:
0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO1 li ul li ul li {text-indent: -
0.125in;margin-left: 108pt;font-size: 11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c ul.LFO1 li ul li ul li ul li {text-indent: -0.25in;margin-left: 144pt;font-size:
11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c ul.LFO1 li ul li ul
li ul li ul li {text-indent: -0.25in;margin-left: 180pt;font-size: 11pt;} div#h5p_6a7c08da74c8c
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_6a7c08da74c8c ul.LFO1 ul ul ul
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ul ul ul {counter-reset: ulLFO1_7;margin-left: -2.875in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c 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_6a7c08da74c8c ul.LFO2 {counter-reset: ulLFO2_1;margin-left: 0;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO2 ul {counter-reset: ulLFO2_2;margin-left: -0.5in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO2 li {text-indent: -0.25in;margin-left: 54pt;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO2 li:before {counter-increment: ulLFO2_1;content: counter(ulLFO2_1, decimal) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c08da74c8c ul.LFO2 ul ul {counter-reset: ulLFO2_3;margin-left: -1in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO2 li ul li {text-indent: -0.25in;margin-left: 90pt;font-size: 11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c ul.LFO2 ul ul ul {counter-reset: ulLFO2_4;margin-left: -1.625in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO2 li ul li ul li {text-indent: -0.125in;margin-left: 126pt;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO2 li ul li ul li:before {counter-increment: ulLFO2_3;content: counter(ulLFO2_3, lower-roman) ". ";margin-left: -
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0.125in;display: table-cell;} div#h5p_6a7c08da74c8c ul.LFO2 ul ul ul ul {counter-reset: ulLFO2_5;margin-left: -2in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO2 li ul li ul li ul li {text-indent: -0.25in;margin-left: 162pt;font-size: 11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c ul.LFO2 ul ul ul ul ul {counter-reset: ulLFO2_6;margin-left: -2.5in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO2 li ul li ul li ul li ul li {text-indent: -0.25in;margin-left: 198pt;font-size: 11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c ul.LFO2 ul ul ul ul ul ul {counter-reset: ulLFO2_7;margin-left: -3.125in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO2 li ul li ul li ul li ul li ul li {text-indent: -0.125in;margin-left: 234pt;font-size: 11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c ul.LFO2 ul ul ul ul ul ul ul {counter-reset: ulLFO2_8;margin-left: -3.5in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO2 li ul li ul li ul li ul li ul li ul li {text-indent: -0.25in;margin-left: 270pt;font-size: 11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c ul.LFO2 ul ul ul ul ul ul ul ul {counter-reset: ulLFO2_9;margin-left: -4in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c ul.LFO2 li ul li ul li ul li ul li ul li ul li ul li {text-indent: -0.25in;margin-left: 306pt;font-size: 11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c ul.LFO2 ul ul ul ul ul ul ul ul ul {counter-reset: ulLFO2_10;margin-left: -4.625in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c08da74c8c 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: 342pt;font-size: 11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c p.P1 {border-top: none !important;border-left: none !important;border-bottom: 0.0138in solid #5B9BD5 !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_6a7c08da74c8c p.P1 span {hyphenate: false;font-family: Calibri Light;color: #323E4F;letter-spacing: 0.0034in;font-size: 26pt;hyphenate: false;font-weight: bold;} div#h5p_6a7c08da74c8c p.P2 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P2 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P3 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c span.T4 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c span.T5 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c span.T6 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c span.T7 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c span.T8 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c span.T9 {font-family: Times New Roman !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c span.T10 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c p.P11 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P11 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P12 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P12 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P13 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P13 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P14 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c span.T15 {font-family: Times New Roman !important;color: #000000 !important;font-size: 12pt !important;background-color: #FFFFFF !important;} div#h5p_6a7c08da74c8c span.T16 {font-family: Times New Roman !important;color: #000000 !important;font-size: 12pt !important;background-color: #FFFFFF !important;} div#h5p_6a7c08da74c8c span.T17 {font-family: Times New Roman !important;color: #000000 !important;font-size: 12pt !important;background-color: #FFFFFF !important;} div#h5p_6a7c08da74c8c span.T18 {font-family: Times New Roman !important;color: #000000

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!important;font-size: 12pt !important;background-color: #FFFFFF !important;}
div#h5p_6a7c08da74c8c p.P19 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c span.T20 {font-family: Times
New Roman !important;color: #000000 !important;font-size: 12pt !important;background-color:
#FFFFFF !important;} div#h5p_6a7c08da74c8c span.T21 {font-family: Times New Roman
!important;color: #000000 !important;vertical-align: super; font-size: 66.6% !important;font-size:
12pt !important;background-color: #FFFFFF !important;} div#h5p_6a7c08da74c8c span.T22
{font-family: Times New Roman !important;color: #000000 !important;font-size: 12pt
!important;background-color: #FFFFFF !important;} div#h5p_6a7c08da74c8c span.T23 {font-
family: Times New Roman !important;color: #000000 !important;font-size: 12pt
!important;background-color: #FFFFFF !important;} div#h5p_6a7c08da74c8c span.T24 {font-
family: Times New Roman !important;color: #000000 !important;font-size: 12pt
!important;background-color: #FFFFFF !important;} div#h5p_6a7c08da74c8c p.P25 {margin-
left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;}
div#h5p_6a7c08da74c8c p.P25 span {hyphenate: false;hyphenate: false;font-family: Times New
Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P26 {margin-left: 0.5in !important;text-align:
justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P26 span
{hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P27 {border: 1px solid #000000 !important;padding-top: 0.0138in
!important;padding-left: 0.0555in !important;padding-bottom: 0.0138in !important;padding-right:
0.0555in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.25in
!important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P27 span {hyphenate: false;font-family:
Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P28 {border: 1px solid #000000
!important;padding-top: 0.0138in !important;padding-left: 0.0555in !important;padding-bottom:
0.0138in !important;padding-right: 0.0555in !important;text-align: justify !important;line-height:
1.5 !important;margin-left: 0.25in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P28
span {hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c
p.P29 {text-align: justify !important;line-height: 1.5 !important;margin-left: 0.25in !important;font-
size: 11pt;} div#h5p_6a7c08da74c8c p.P29 span {hyphenate: false;font-family: Times New
Roman;font-weight: bold;font-size: 12pt;text-decoration: single;text-decoration: underline;text-
decoration-style: solid;} div#h5p_6a7c08da74c8c p.P30 {margin-left: 0.5in !important;text-align:
justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P30 span
{hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
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div#h5p_6a7c08da74c8c p.P31 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P31 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P32 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P32 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P33 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P33 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P34 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P34 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P35 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P35 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P36 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P36 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P37 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P37 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P38 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c span.T39 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c span.T40 {font-family: Times New Roman !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c span.T41 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c p.P42 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c span.T43 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c span.T44 {font-family: Times New Roman !important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c span.T45 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c08da74c8c p.P46 {margin-left: 0.5in !important;text-align:

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justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;}
div#h5p_6a7c08da74c8c span.T47 {font-family: Times New Roman !important;font-size: 12pt
!important;} div#h5p_6a7c08da74c8c span.T48 {font-family: Times New Roman
!important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;}
div#h5p_6a7c08da74c8c span.T49 {font-family: Times New Roman !important;font-size: 12pt
!important;} div#h5p_6a7c08da74c8c p.P50 {margin-left: 0.5in !important;text-align: justify
!important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;}
div#h5p_6a7c08da74c8c span.T51 {font-family: Times New Roman !important;font-size: 12pt
!important;} div#h5p_6a7c08da74c8c span.T52 {font-family: Times New Roman
!important;vertical-align: super; font-size: 66.6% !important;font-size: 12pt !important;}
div#h5p_6a7c08da74c8c span.T53 {font-family: Times New Roman !important;font-size: 12pt
!important;} div#h5p_6a7c08da74c8c span.T54 {font-family: Times New Roman !important;font-
size: 12pt !important;} div#h5p_6a7c08da74c8c p.P55 {margin-left: 0.5in !important;text-align:
justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;}
div#h5p_6a7c08da74c8c p.P55 span {hyphenate: false;hyphenate: false;font-family: Times New
Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P56 {margin-left: 0.5in !important;text-align:
justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P56 span
{hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P57 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P57 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P58 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P58 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P59 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P59 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P60 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P60 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P61 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P61 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
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div#h5p_6a7c08da74c8c p.P62 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P62 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P63 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P63 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P64 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P64 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P65 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P65 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P66 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P66 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P67 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P67 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P68 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P68 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P69 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P69 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P70 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P70 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P71 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P71 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P72 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P72 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}

div#h5p_6a7c08da74c8c p.P73 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P73 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P74 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P74 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P75 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P75 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P76 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P76 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P77 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P77 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P78 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P78 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P79 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P79 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P80 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P80 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P81 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P81 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P82 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P82 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P83 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P83 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}

div#h5p_6a7c08da74c8c p.P84 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P84 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P85 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P85 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P86 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P86 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P87 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P87 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P88 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P88 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P89 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P89 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P90 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P90 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P91 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P91 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P92 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P92 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P93 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P93 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c p.P94 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P94 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}

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div#h5p_6a7c08da74c8c p.P95 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P95 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P96 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P96 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P97 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P97 span {hyphenate:
false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c
p.P98 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5
!important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P98 span
{hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P99 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P99 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P100 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P100 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P101 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P101 span {hyphenate:
false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c08da74c8c
p.P102 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5
!important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P102 span
{hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P103 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P103 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P104 {margin-left: 0.5in !important;text-align: justify !important;line-
height: 1.5 !important;margin-left: 0.75in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P104 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;}
div#h5p_6a7c08da74c8c p.P105 {margin-top: 0.0694in !important;margin-bottom: 0.0694in
!important;line-height: 1 !important;margin-top: 0in !important;margin-bottom: 0.2708in
!important;line-height: 1.5 !important;background-color: #FFFFFF !important;font-size: 11pt;}
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div#h5p_6a7c08da74c8c p.P105 span {hyphenate: false;font-family: Times New Roman;font-size:
12pt;hyphenate: false;color: #222222;} div#h5p_6a7c08da74c8c p.P106 {margin-left: 0.5in
!important;font-size: 11pt;} div#h5p_6a7c08da74c8c p.Normal {font-size: 11pt;}
div#h5p_6a7c08da74c8c p.Normal span {hyphenate: false;font-size: 11pt;}
div#h5p_6a7c08da74c8c span.DefaultParagraphFont {font-size: 11pt;} div#h5p_6a7c08da74c8c
p.ListParagraph {margin-left: 0.5in !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.ListParagraph span {hyphenate: false;hyphenate: false;font-size: 11pt;}
div#h5p_6a7c08da74c8c span.Strong {font-weight: bold !important;font-size: 11pt;}
div#h5p_6a7c08da74c8c p.NormalWeb {margin-top: 0.0694in !important;margin-bottom:
0.0694in !important;line-height: 1 !important;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.NormalWeb span {hyphenate: false;font-family: Times New Roman;font-size: 12pt;hyphenate:
false;} div#h5p_6a7c08da74c8c p.Title {border-top: none !important;border-left: none
!important;border-bottom: 0.0138in solid #5B9BD5 !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_6a7c08da74c8c p.Title span {hyphenate: false;font-family:
Calibri Light;color: #323E4F;letter-spacing: 0.0034in;font-size: 26pt;hyphenate: false;}
div#h5p_6a7c08da74c8c span.TitleChar {font-family: Calibri Light !important;color: #323E4F
!important;letter-spacing: 0.0034in !important;font-size: 26pt !important;}
div#h5p_6a7c08da74c8c div {font-size: 11pt;} div#h5p_6a7c08da74c8c p.P106 span {hyphenate:
false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P3 span {hyphenate:
false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P14 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;}
div#h5p_6a7c08da74c8c p.P19 span {hyphenate: false;hyphenate: false;hyphenate:
false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P38 span {hyphenate:
false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c08da74c8c
p.P42 span {hyphenate: false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;}
div#h5p_6a7c08da74c8c p.P46 span {hyphenate: false;hyphenate: false;hyphenate:
false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c08da74c8c p.P50 span {hyphenate:
false;hyphenate: false;hyphenate: false;hyphenate: false;font-size: 11pt;} div#h5p_6a7c08da74c8c
table {margin-left: 0in;border-collapse: collapse;writing-mode: lr-tb;font-size: 11pt;}
div#h5p_6a7c08da74c8c table tr {height: 0in;keep-together: auto;font-size: 11pt;}
div#h5p_6a7c08da74c8c table td, table th {background-color: transparent;vertical-align:
```

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top;wrap-option: wrap;font-size: 11pt;} div#h5p_6a7c08da74c8c 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_6a7c08da74c8c 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;}
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Questions to Practice Mixed Concepts of Quantitative Techniques

The average weight of ten students is 40 kg and if we add another student, the average weight increases by 2 kg, find the weight of the new student?

The average of 11 terms is 50 and the average of first 5 terms are 55 and the average of last five terms are 45. Find the 6th term.

Suresh bought 70 kg of sugarcane for Rs. 60 per kg and also paid 2000 on its transportation. After manufacturing 50 kg sugar from it, he sold the sugar at the rate of Rs. 85 per kg. Calculate the final profit or loss percentage.

If a commodity was marked at Rs. 12000 and then was sold at 15% discount, what is the selling Price?

If an antique coffee mug was sold at a discount of 30% on the price marked and when it is sold at 20% discount, the price increases by Rs. 200. Find the original selling Price

Ashima bought two tables at Rs. 5000 each. She sell out the one table at a loss of 15%. At what profit should she sell the remaining table to get an overall profit of 20%.

Runner A is running at $\frac{6}{7}$ th of the speed of Runner B. If runner B covers 500 km in 10 hours, calculate the time taken by Runner A to cover a distance of 100 km.

A train with 170 m in length covers a platform of 200 m length in 100 second. Calculate the speed of train.

Calculate the time taken by a train of 200 m. running at the speed of 75 km/h to overtake a train of 75 m length running at the speed of 30 km/h.

DO IT YOURSELF!!

If the average of 10 observations is 70 and later it was observed that that 52 was misread as 25, calculate the new average.

Solution

Sum of weight of 10 students = $40 \times 10 = 400$ kg

Sum of 11 students = $(400 + x)$ kg

As per the question, $42 = \frac{(400+x)}{11}$

$$X = \frac{(42 \times 11) - 400}{1} = 462 - 400 = 62 \text{ kg}$$

Sum of 11 terms = sum of first 5 terms + 6th term + sum of last five terms

$$(11 \times 50) = (55 \times 5) + 6\text{th term} + (45 \times 5)$$

$$550 = 275 + 6\text{th term} + 225$$

$$6\text{th term} = 550 - 500 = 50$$

Cost Price = $(70 \times 60) + 2000 = 4200 + 2000 = \text{Rs. } 6200$

Selling Price = $50 \times 85 = \text{Rs. } 4250$

Loss Percentage = $\frac{(1950)}{6200} \times 100 = 31.4\%$

Selling Price = $12000 - (15/100) \times 12000 = 12000 - 1800 = \text{Rs. } 10200$

Let the marked price of the mug be Rs. x

Price at 20% discount = $x - (20/100) \times x = x - \frac{x}{5} = \frac{4x}{5}$

Price at 30% discount = $x - (30/100) \times x = x - \frac{3x}{10} = \frac{7x}{10}$

As per the

question, $4x/5 - 7x/10 = 200(8x - 7x)/10 = 200x/10 = 2000x = \text{Rs. } 2000$ Original selling price =
 $2000 - (30/100) \times 2000 = 2000 - 600 = \text{Rs. } 1400$ Overall Cost Price = 10000 Selling Price of table one = $5000 - (15/100) \times 5000 = 5000 - 750 = \text{Rs. } 4250$ Or an overall profit of 20%, the selling price =
 $10000 + (20/100) \times 10000 = 10000 + 2000 = \text{Rs. } 12000$ The price at which the second table be sold = $12000 - 4250 = \text{Rs. } 7750$ Required profit percentage = $(2750/5000) \times 100 = 55\%$ Speed of Runner B = $500/10 = 50 \text{ km/h}$ Speed of Runner A = $(6/7) \times 50 = 42.8 \text{ km/h}$ Time taken = $100/42.8 = 2.3 \text{ hours}$ Distance covered = $170 + 200 = 370 \text{ m}$. Time taken = 100 seconds Speed = $370/100 = 3.7 \text{ m/s}$ Total distance = $200 + 75 = 275 \text{ m}$ Relative speed = $75 - 30 = 45 \text{ km/hr} = 12.5 \text{ m/sec}$ Therefore time taken = $275/12.5 = 22 \text{ seconds}$

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(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, orderBy){
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) * orderBy; } else if (!isNaN(XX) && isNaN(YY)){
return -1 * orderBy; } else if (isNaN(XX) && !isNaN(YY)){ return orderBy; } else { if(X < Y) { return -
1 * orderBy; } if(X > Y) { return 1 * orderBy; } return 0; } }); $.each(rows, function(index, row) {
node.children('tbody').append(row); }); } function removeTableCellDecoration() { $("td[data-

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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.](#)

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