BLOGS

Learn To Solve Ratio And Proportion for CLAT

Aparna Shukla · 22 Feb 2021

.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_6a7c006752a5e ul.LFO1 {counter-reset: ulLFO1_1;margin-left: 0;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 ul {counter-reset: ulLFO1_2;margin-left: -0.5in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 li {margin-left: 0.5in;text-indent: -0.25in;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 li:before {counter-increment: ulLFO1_1;content: counter(ulLFO1_1, decimal) ". ";margin-left: -0.25in;display: table-cell;} div#h5p_6a7c006752a5e ul.LFO1 ul ul {counter-reset: ulLFO1_3;margin-left: -1in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 li ul li {margin-left: 1in;text-indent: -0.25in;font-size: 11pt;} div#h5p_6a7c006752a5e 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_6a7c006752a5e ul.LFO1 ul ul ul {counter-reset: ulLFO1_4;margin-left: -1.5in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 li ul li ul li {margin-left: 1.5in;text-indent: -0.125in;font-size: 11pt;} div#h5p_6a7c006752a5e 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_6a7c006752a5e ul.LFO1 ul ul ul ul {counter-reset: ulLFO1_5;margin-left: -2in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 li ul li ul li ul li {margin-left: 2in;text-indent: -0.25in;font-size: 11pt;} div#h5p_6a7c006752a5e 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_6a7c006752a5e ul.LFO1 ul ul ul ul ul {counter-reset: ulLFO1_6;margin-left: -2.5in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 li ul li ul li ul li ul li {margin-left: 2.5in;text-indent: -0.25in;font-size: 11pt;} div#h5p_6a7c006752a5e 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_6a7c006752a5e ul.LFO1 ul ul ul ul ul ul {counter-reset: ulLFO1_7;margin-left: -3in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 li ul li ul li ul li ul li ul li {margin-left: 3in;text-indent: -0.125in;font-size: 11pt;} div#h5p_6a7c006752a5e 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_6a7c006752a5e ul.LFO1 ul ul ul ul ul ul ul {counter-reset: ulLFO1_8;margin-left: -3.5in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 li ul li ul li ul li ul li ul li ul li {margin-left: 3.5in;text-indent: -0.25in;font-size: 11pt;} div#h5p_6a7c006752a5e 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_6a7c006752a5e ul.LFO1 ul ul ul ul ul ul ul ul {counter-reset: ulLFO1_9;margin-left: -4in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 li ul li ul li ul li ul li ul li ul li ul li {margin-left: 4in;text-indent: -0.25in;font-size: 11pt;} div#h5p_6a7c006752a5e 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_6a7c006752a5e ul.LFO1 ul ul ul ul ul ul ul ul ul {counter-reset: ulLFO1_10;margin-left: -4.5in;padding: 0; list-style-type: none;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 li ul li ul li ul li ul li ul li ul li ul li ul li {margin-left: 4.5in;text-indent: -0.125in;font-size: 11pt;} div#h5p_6a7c006752a5e ul.LFO1 li ul 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_6a7c006752a5e p.P1 {break-before: page !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e span.T2 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T3 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T4 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T5 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e p.P6 {text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e span.T7 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T8 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T9 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T10 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T11 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e p.P12 {text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P13 {text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P13 span {hyphenate: false;font-family: Times New Roman;font-size: 12pt;}

div#h5p_6a7c006752a5e p.P14 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P14 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e p.P15 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P15 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e p.P16 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P16 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e p.P17 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P17 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e p.P18 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P18 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e p.P19 {margin-left: 0.5in !important;text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P19 span {hyphenate: false;hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e p.P20 {margin-top: 0.0694in !important;margin-bottom: 0.0694in !important;line-height: 1 !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.25in !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P21 {margin-top: 0.0694in !important;margin-bottom: 0.0694in !important;line-height: 1 !important;text-align: justify !important;line-height: 1.5 !important;margin-left: 0.25in !important;font-size: 11pt;} div#h5p_6a7c006752a5e span.T22 {font-weight: bold !important;font-weight: normal !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P23 {text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e span.T24 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T25 {font-weight: bold !important;font-family: Times New Roman !important;font-weight: normal !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T26 {font-weight: bold !important;font-family: Times New Roman !important;font-weight: normal !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e p.P27 {text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e span.T28 {font-weight: bold !important;font-family: Times New Roman !important;font-weight: normal !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e col.TableColumn30 {width: 1.9777in !important;font-size: 11pt;} div#h5p_6a7c006752a5e

col.TableColumn31 {width: 1.7631in !important;font-size: 11pt;} div#h5p_6a7c006752a5e table.Table29 {width: 3.7409in !important;margin-left: 0in !important;font-size: 11pt;} div#h5p_6a7c006752a5e tr.TableRow32 {height: 0.3125in !important;font-size: 11pt;} div#h5p_6a7c006752a5e td.TableCell33 {border: none !important;writing-mode: lr-tb;vertical-align: middle !important;padding-top: 0in !important;padding-left: 0in !important;padding-bottom: 0in !important;padding-right: 0in !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P34 {text-align: justify !important;margin-bottom: 0in !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P34 span {hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e td.TableCell35 {border: none !important;writing-mode: lr-tb;vertical-align: middle !important;padding-top: 0in !important;padding-left: 0in !important;padding-bottom: 0in !important;padding-right: 0in !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P36 {text-align: justify !important;margin-bottom: 0in !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P36 span {hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e tr.TableRow37 {height: 0.3125in !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P38 {text-align: justify !important;margin-bottom: 0in !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P38 span {hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e p.P39 {text-align: justify !important;margin-bottom: 0in !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P39 span {hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e p.P40 {text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P40 span {hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e p.P41 {line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P41 span {hyphenate: false;font-family: Times New Roman;font-size: 12pt;} div#h5p_6a7c006752a5e p.P42 {line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e p.P43 {line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e span.T44 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T45 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T46 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T47 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T48 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T49 {font-weight: bold !important;font-family: Times New Roman

!important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T50 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T51 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T52 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T53 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T54 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T55 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T56 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T57 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T58 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T59 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T60 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T61 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T62 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T63 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T64 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T65 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T66 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T67 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T68 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T69 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T70 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T71 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T72 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T73 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e p.P74 {text-align: justify !important;line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e span.T75 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T76 {font-family: Times New Roman !important;font-size: 11pt;} div#h5p_6a7c006752a5e span.T77 {font-family: Times New Roman !important;font-size: 12pt !important;}

div#h5p_6a7c006752a5e span.T78 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e p.P79 {line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e span.T80 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T81 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T82 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T83 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T84 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T85 {font-family: Cambria Math !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T86 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T87 {font-family: Cambria Math !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T88 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T89 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T90 {font-weight: bold !important;font-family: Cambria Math !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T91 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T92 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T93 {font-weight: bold !important;font-family: Cambria Math !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T94 {font-weight: bold !important;font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T95 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e p.P96 {line-height: 1.5 !important;font-size: 11pt;} div#h5p_6a7c006752a5e span.T97 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T98 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T99 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T100 {font-weight: bold !important;font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T101 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T102 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T103 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T104 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e span.T105 {font-family: Times New Roman !important;font-size: 12pt !important;} div#h5p_6a7c006752a5e

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In any kind of competitive exam, the questions involving ratio and proportion are pretty common. It is also very evident from the Sample papers released by CLAT Consortium that the concept of ratio is one of the important topics that one must cover in order to fetch marks. If you have gone through the CLAT Consortium's Sample Paper, you must be aware with the changed pattern of questions in the Quantitative Section. All the questions are in the passage form and multiple questions are asked on the basis of information provided through the various special charts like pie chart, bar graph, line chart, tables etcIt is one of the easiest topic in the Quants section and does not involve very complex formula or concepts. If two quatities are of the same type, then only they can be expressed as ratios. Ratio is the number ogf times one quantity contains the another. But the type must be same. You cannot find the ratio between 1 kg of potato and 2 laptops. Ratios are expressed in the form of A:B or A/B where A is called antecedent and B is called consequent. When two ratios are equal in value, then they are said to be in proportion. The equivalence of two ratios is called proportion. If a : b = c : d, then a, b, c, d are said to be in proportion. Here, a x d = b x c. There are a few points with respect to the ratio and proportion that are to be kept in mind while solving the questions of ratio and proportion. Pay attention to these point and keep them in mind while solving the questions relating to ratio and proportion.If p : q = r : s, then p, q, r, s are said to be in proportion. Here, p x s = q x r. If we have two ratios, say p : q and r : s, then (p x r) : (q x s) is called the compounded ratio.If p : q = r : s, i.e., p/q = r/s, then (p + q) / (p – q) = (r + s) / (r – s)

This is called Componendo and Dividendo.If we say that 'p' is directly proportional to 'q', it means that p = k x q, where 'k' is the constant of proportionality.If we say that 'p' is inversely proportional to 'q', it implies that p = k / q or p x q = k, where 'k' is the constant of proportionalityIf a ratio is multiplied or divided by a certain number, the properties of the ratio do not change. For example, if we multiply 2 : 3 by 7, we get 14 : 21, which is same as 2:3.As hyou must be aware that Hardwork and smartwork go hand in hand. Therefore we have to focus our

preparation as per the changed pattern in the CLAT Sample paper released by CLAT Consortium pon their website. Therefore, there are passage based questions which involve the concept of Percentage, Average, Ratio, Simple Interest, Compound Interest, Profit & Loss etc.So, let us focus on the examples given below in order to make sure that we are quick at solving the questions that involve the concept of Ratio and proportion:Example 1: The ratio of Rice and Pulses in an Indian one pot dish 'Khichdi' is 13 : 7. How much rice will be there in 100 kg of Khichdi? Solution: This is the simplest and the most diresct kind of question. To find How much rice will be there in 100 kg of Khichdi, Since, 13+7 = 20Therefore, Amount of rice = (13/20) *100 = 65 kg Example 2: A mixture contains artificial blood and orange juice in the ratio 4: 3. If 10 litres of orange juice is added to the mixture, the ratio becomes 4: 5. Find the initial quantity of artificial blood in the given mixture.Solution: The initial ratio is 4 : 3.

Let 'k' be the common ratio.

=> Initial quantity of artificial blood = 4 k

=> Initial quantity of orange juice = 3 k

=> Final quantity of artificial blood = 4 k

=> Final quantity of orange juice = 3 k + 10

Final ratio = 4 k : 3 k + 10 = 4 : 5

=> k = 5

Therefore, initial quantity of artificial blood in the given mixture = 4 k = 20 litersExample 3: Three friends Abhilasha , Asad and Aditi started a business, each investing Rs. 10,000. After 5 months Abhilasha withdrew Rs. 3000, Asad withdrew Rs. 2000 and Aditi invested Rs. 3000 more. At the end of the year, there was a total profit of Rs. 34,600. Find the share of Abhilasha , Asad and Aditi separately.

Solution : We know that if the period of investment is not uniform, the gains/losses from the business are divided in the ratio of their inputs, where input is calculated as the product of amount of investment and time period of investment.

So, input = value of investment x period of investment, and here, period of investment would be broken into parts as the investment is not uniform throughout the time period.

Abhilasha's input = (10,000 x 5) + (7,000 x 7) = 99,000

Asad's input = (10,000 x 5) + (8,000 x 7) = 1,06,000

Aditi's input = (10,000 x 5) + (13,000 x 7) = 1,41,000

=> Abhilasha : Asad : Aditi = 99000 : 106000 : 141000

=> Abhilasha : Asad : Aditi = 99 : 106 : 141

=> Abhilasha : Asad : Aditi = (99 / 346) : (106 / 346) : (141 / 346)

Thus, Abhilasha's share = (99 / 346) x 34600 = Rs. 9900

Asad's share = (106 / 346) x 34600 = Rs. 10600

Aditi's share = (141 / 346) x 34600 = Rs. 14100

Example 4: In a certain government department, the ratio of male employees to female employees is 7: 5. If there are 2400 employees in the department, then how many female employees are there?Solution: Let the number of male employees and female employees are 7x and 5x, respectively.

Given, total number of employees = 2400

⇒ 7x + 5x = 2400 ⇒ 12x = 2400

 x = 200

 number of female employees = 5x = 5 × 200 = 1000Example 5: 5 bottles as much as 12 tiffin, 7 tiffin as much as 2 box, 3 box as much as 2 bags. If the cost of 5 bags is Rs 875, then find the cost of a bottle.

Solution: 5 bags = 875

2 bags = 875 * 2/5 = 3 box

2 box cost= 875 * 2/5 * 2/3 = 7 tiffin cost

12 tiffin cost = 875 * 2/5 * 2/3 * 12/7 = 5 bottles

1 bottle = 875 * 2/5 * 2/3 * 12/7 * 1/5 = Rs 80Example 7: The ratio of the age of Mayank and his Priyanshi is 6:5. After 16 years, the ratio becomes 10:9. Find Mayank's age when the Priyanshi was born.

Solution: Let x is Mayank's age

And y is the Priyanshi's age.

x/y= 6/5

x=(6/5)yAfter 16 years,

(x + 16)/(y + 16) = 10/9

9x + 144 = 10y + 160

9*(6/5)y = `10y + 16

54y – 50y = 80

y=20

Then x = 24

When Priyanshi was born Mayank’s age = 4 years.(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));