

Question	Answer	Mark	Mark scheme	Additional guidance
21	Shown with supportive working	<p>M1</p> <p>M1</p> <p>C1</p>	<p>for start to a method to find common multiples of 30 <b>and</b> 26, eg writes down at least 3 multiples of 30 <b>and</b> 26 (can include 30 and 26 may not be consecutive) <b>or</b> correctly adds 30 <b>and</b> 26 at least 3 times starting with 7:45</p> <p><b>or</b> for the prime factors 2, 13 <b>and</b> 2, 3, 5 (could be shown in a factor tree with no more than one arithmetic error in each list, or Venn diagram or table)</p> <p><b>or</b> clearly identifies the factors, 13, 2 and 15 only (may be seen in a grid)</p> <p><b>or</b> for any common multiple, eg 390, 780, ...</p> <p>for method to work with time appropriately, eg 14:00 – 7:45 (= 6.25 hrs) <b>or</b> 375 mins <b>or</b> 6 hrs 15 mins <b>or</b> shows a build up method using both 30 <b>and</b> 26 minutes beyond 12 noon <b>or</b> converts their common multiple to hrs or hours and minutes, eg 390 (mins) = 6.5 (hrs) <b>or</b> 390 (mins) = 6 (hrs) 30 (mins)</p> <p>(dep on M2) shown with accurate figures, eg unambiguously identifies 14:15 oe <b>or</b> 6.5 (hrs) <b>and</b> 6.25 (hrs) <b>or</b> 6 (hrs) 30 (mins) <b>and</b> 6 (hrs) 15 (mins) <b>or</b> 390 (mins) <b>and</b> 375 (mins)</p>	<p>30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330, 360, 390 26, 52, 78, 104, 130, 156, 182, 208, 234, 260, 286, 312, 338, 364, 390</p> <p>7:45, 8:15, 8:45, 9:15. 9:45, 10:15, 10:45, 11:15, 11:45, 12:15, 12:45, 13:15, 13:45, 14:15 7:45, 8:11, 8:37, 9:03, 9:29, 9:55, 10:21, 10:47, 11:13, 11:39, 12:05, 12:31, 12:57, 13:23, 13:49, 14:15</p> <p>Condone the inclusion of 1 for this mark</p> <p>If a list of factors is given, 13, 2 and 15 only must be unambiguously identified</p> <p>allow no more than 1 error or omission for each list Must use a common multiple</p> <p>units not needed but if given must be correct An incorrect conversion will score C0, eg 6.5 incorrectly converted to 6hrs 50mins</p>