Junior high school

To understand the use of the calculator when working with sexagesimal numbers — that is, numbers based on sixtieths: hours (and degrees)/minutes/seconds.

The calculator key which enables the student to easily handle mathematical operations when working with time or angles is the sexagesimal key. Identified by: D°M'S.

Time and Angles

The calculator normally handles numbers and place value based on the decimal system (base number 10). When working with time — hours, minutes and seconds — the base number is 60 (there are 60 seconds in a minute and 60 minutes in an hour). When working with angles, the same base number of 60 is used (there are 60 seconds in a minute and 60 minutes in a degree). To be able to represent time (or angle notation) and to be able to carry out calculations involving time (or angles), we need to switch the calculator to work with a number base of 60. To represent 3 hr 26 min 40sec,

Press 3 D°M'S 2 6 D°M'S 4 0	☐ 3 ° 2 6 ° 4 0
If we now wish to know half of that time, we only have	to divide by 2.
÷ 2 =	3°26°40÷2= wview № 1°43°20 = ¹¹
Similarly we can add times (or angles) using this notation. 1 DWS 4 5 DWS + 2 DWS 3 0 DWS =	
1 hour 45 minutes plus 2 hours 30 minutes. Answer: 4 hours 15 minutes.	$1 \div 45 \div +2 \div 30 \div =$ ^{NI} $4 \div 15^{9} 0 =$