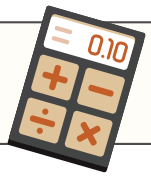
Reading a Calculator Display - Time



Section A — *Interpreting Decimals as Time*

How we interpret time from a calculator display depends on whether we are working in hours or in minutes. For each calculator display below, interpret as both hours and minutes and then as minutes and seconds.

Calculator Display	Hours and Minutes	Minutes and Seconds
2.5	2 hours and 30 minutes	2 minutes and 30 seconds
1.25		
8.75		
$7.\dot{3}$		
10.1		
0.2		
3.05		

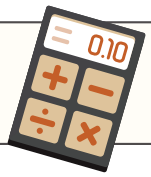
What do you notice?

Section B — *Interpreting Fractions as Time*

For each calculator display below, interpret as hours and minutes.

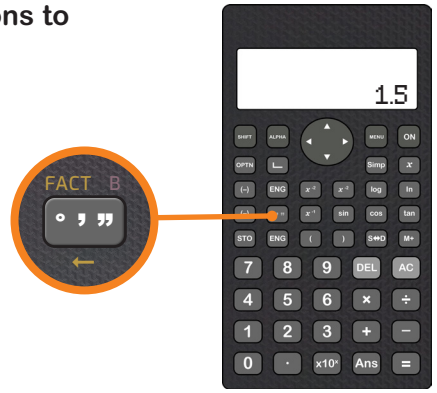
Calculator Display	Hours and Minutes
$6\frac{3}{4}$	
$\frac{9}{2}$	
$4\frac{1}{3}$	
$74\frac{2}{3}$	
$2\frac{3}{5}$	

Reading a Calculator Display - Time



Section C *Calculator functions*

Did you know your calculator can convert from decimals and fractions to hours, minutes and seconds?



Enter 1.5 into your calculator, followed by the degrees, minutes and seconds button (in the orange circle).

What answer do you get?

We know that 1.5 hours is 1 hour and 30 minutes. Think about how the display shows this.

Now convert the following decimals and fractions to hours, minutes and seconds using the time conversion button.

1) 5.55	4) 0.01	7) $\frac{3}{8}$
2) 0.8	5) 4.26	8) $9\frac{5}{9}$
3) 2.3	6) $2\frac{7}{12}$	9) $1\frac{13}{20}$

We can also use this button to convert from time in hours, minutes and seconds to a number of hours, which is useful when calculating speed.

For example, what is 10 hours 24 minutes in hours?

10 [° ' "] 24 [° ' "] = [S⇔D] = 10.4 hours

Now convert these times in hours and minutes to hours using the time conversion function on your calculator.

1) 4 hours and 15 minutes	2) 36 minutes	3) 2 hours and 36 minutes