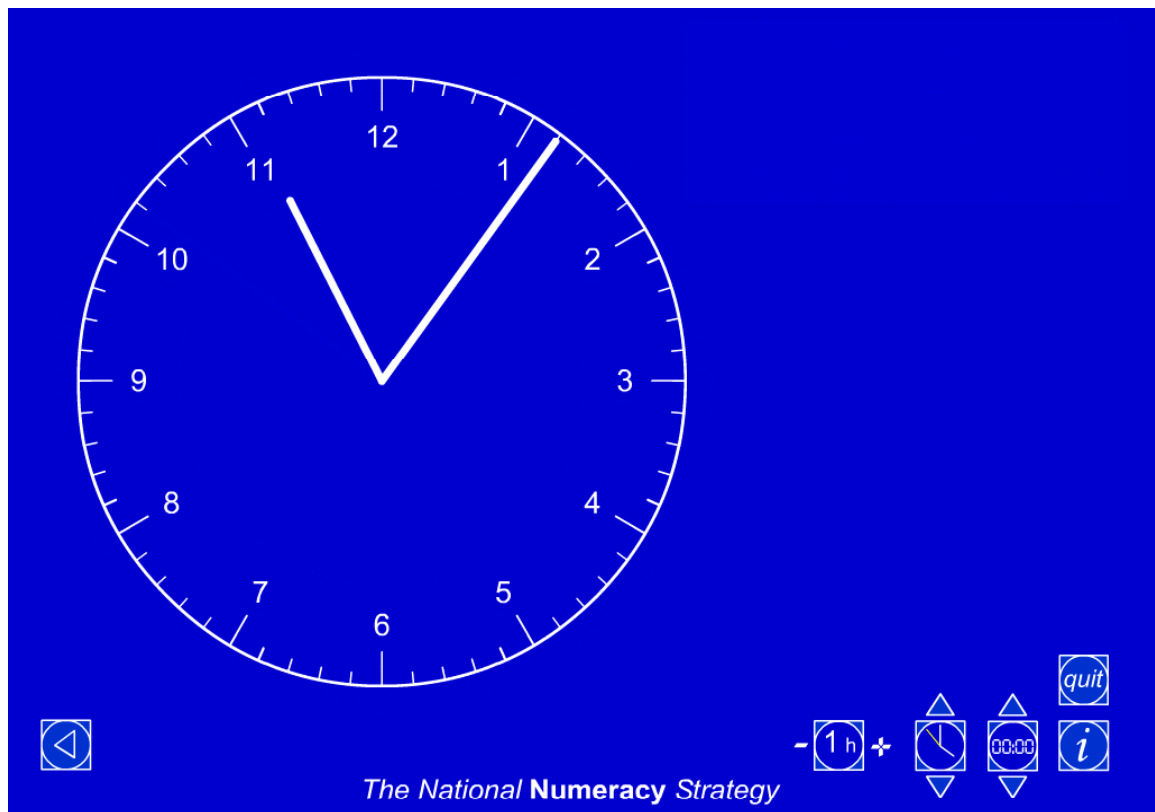


Tutorial 14 Time



You can click on and drag the clock to different positions on the screen. The icon



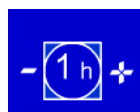
will enable you to change the size of the clock face. Click on the up arrow to make the clock face larger and the down arrow to make the clock face smaller.



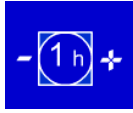
Clicking on the centre of the clock icon removes the analogue clock from the screen. Click again and it will reappear.



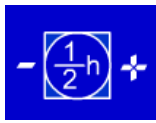
The icon controls the digital clock in a similar way. This too can be moved to different positions on the screen. Both clocks can be displayed at once.



To change the time on either clock use the icon. To change the time increments click on the centre of this circle. Increments range from 1 minute to 1 hour. This icon will alter the time on both analogue and digital clocks.

Display the analogue clock face. Click on the centre of the icon  to decrease

the increment to $\frac{1}{2}$ hour as shown



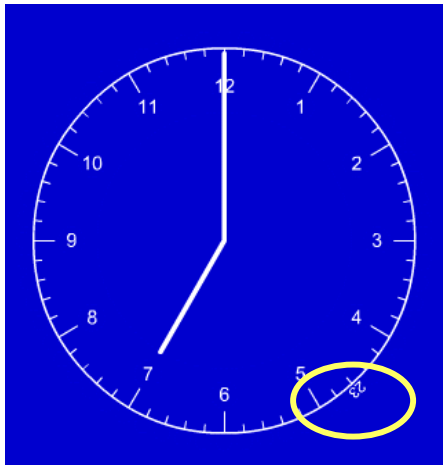
Q: What is the time shown?


Q: What will the time be in half an hour?

Click on the addition sign to show the new time

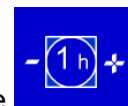


When using the analogue clock you can move the pointer or mouse around the clock face to reveal the minutes as shown below.



Click on the digital icon  to reveal the digital clock, and hide the analogue clock.

Decrease the increment to $\frac{1}{4}$ hour by clicking on the centre circle of the



Q: What is the time shown?

Q: What would it have been 15 minutes ago?

Click on the subtraction sign to reveal what time it would have been 15 minutes ago.

Now click on the set button to reveal more options.



You can control both clocks (or just the digital clock) using this set of icons.

Change the time by using the arrow keys to increase or decrease hours, minutes or seconds.

Set the clock to 10:35 using the up and down arrows above and below the digits.

Q: A bus is due in 15 minutes, but it is actually running 15 minutes late. How long will we have to wait for it? What time will it arrive?

Convert the time shown to a 24 hour clock and set the clock to 11:35, the time the bus should arrive.

Q: If there is another bus 1 hour 45 minutes after this time, what time will be shown on the clock?

Display this time and convert to a 12 hour clock to see the changes in the presentation. Click on **SEC**, **NOW** and **set** for a 'real time' clock with seconds. The analogue clock will also show a second hand. Display both clocks alongside one another on the screen.

Use the Time ITP to demonstrate time on an analogue and digital clock. Explore how the ITP might be used to solve problems involving time.