

**38** A student defines three periods of time:

- the time  $T_S$  taken for the Earth to orbit the Sun
- the time  $T_R$  taken for the Earth to rotate once on its axis
- the time  $T_M$  taken for the Moon to orbit the Earth.

Which row shows the shortest period of time and the longest period of time?

	shortest period of time	longest period of time
<b>A</b>	$T_S$	$T_R$
<b>B</b>	$T_R$	$T_S$
<b>C</b>	$T_R$	$T_M$
<b>D</b>	$T_M$	$T_S$