SIGNIFICANT DIGITS (OR) SIGNIFICANT FIGURES

1) A choice of change of different units does not change the number of significant digits or figures in a measurement.

2) All the non-zero digits are significant.

• All the zeros between two non-zero digits are significant, no matter where the decimal point is, if at all.

• If the number is less than 1, the zero(s) on the right of decimal point but to the left of the first non-zero digit are not significant. [In 0.00 2308, the underlined zeroes are not significant].

The trailing zero(s) in a number with a decimal point are significant.

• The terminal or trailing zero(s) in a number without a decimal point are not significant.

3) every measurement should express in in scientific notation.

(write the Correct no of significant figures)

period of oscillation of a simple pendulum is 1.62 s	
length of an object is 287.5 cm	
length of an object is 28.75 cm	
length of an object is 2.875 m	
period of oscillation of a simple pendulum is 1620 ms	
length of an object is 2.3082 cm	
length of an object is 23.082 mm	
length of an object is 0.023082 m	
length of an object is 23082 μm.	

(join with arrows - to their correct significant figures.)

1300.0020	2
$0.310x10^3$	1
0.005	9
0.500	7
54120	5
23.020	3
72365.0	4
6032040.	6
	8