

Name :

Class :

Degrees, Minutes and Seconds

A degree is $\frac{1}{360}$ th of a circle. A degree is further divided into 60 minutes, and a minute is divided into 60 seconds.



For example convert $67^{\circ}15'54''$

$$67 + \frac{15}{60} + \frac{54}{3600}$$
$$\downarrow \quad \downarrow \quad \downarrow$$
$$67 + 0.25 + 0.015 = 67.265^{\circ}$$

Degrees Minutes & Seconds

360° in a circle

$1^{\circ} = \frac{1}{360}$ of a circle

$1' = \frac{1}{60}$ of one degree

$1'' = \frac{1}{60}$ of one minute

$1^{\circ} = 60$ minutes or 3600 seconds

Convert the degrees, minutes and seconds to decimal degrees.

1) $69^{\circ} 47'$

2) $183^{\circ} 12' 44''$

3) $38^{\circ} 54' 22''$

4) $85^{\circ} 25'$

5) $202^{\circ} 8'$

6) $99^{\circ} 36' 51''$

7) $349^{\circ} 16' 4''$

8) $77^{\circ} 5'$