

**Riviera International Academy**

**Assignment-2077**

**(Jestha 02, 2077, Friday)**

**Class: Eight**

**Subject: Mathematics**

Source: **Photo** of exercise will be provided today after the class.

Homework: Complete all the exercises from page 244 & 245.

Note: Read and write all the formulae of area and perimeter.

**Subject – Opt. Mathematics**

**Prove the followings.**

i)  $\sec^2 60^\circ - \tan^2 60^\circ = 1$

ii)  $\sin^2 30^\circ + \cos^2 30^\circ = 1$

iii)  $\sin^2 30^\circ + \sin^2 45^\circ + \cos^2 45^\circ + \sin^2 60^\circ = 2$

iv)  $\tan^2 30^\circ + \tan^2 45^\circ + \tan^2 60^\circ = 4\frac{1}{3}$

v)  $\sin 30^\circ \cdot \cos 60^\circ + \cos 30^\circ \cdot \sin 60^\circ = 1$

vi)  $\cos 45^\circ \cdot \cos 60^\circ - \sin 45^\circ \cdot \sin 60^\circ = \frac{\sqrt{3} - 1}{2\sqrt{2}}$

**Subject – HPE**

**Answer the following questions.**

1. Explain the relationship among health, population and environment education.
2. Why is home called a scope of health education?

**The End.**