**Maths for Higher Environmental Science Answers**

**Ratios**

1. 8:10 = 4:5 b) 12:15 = 4:5 c) 14:35 = 2:5 d) 12:28 = 3:7

e) 2:2 = 1:1 f) 20:35 = 4:7 g) 54:24 =9:4 h) 27:54 = 1:2

i) 11:66 = 1:6 j) 800:8 = 100:1 k) 34:17 = 2:1 l) 44:33 = 4:3

**Percentages**

1. 11% of 90m = 9.9m b) 2% of 350 = 7

c) 9% of 24 = 2.16 d) 44% of £12.50 = £5.50

e) In 2005 a conifer tree was 2.5 metres tall. By 2010 it had grown 40%.

(i) How much had it grown? **1m**

(ii) What was its new height? **3.5m**

f) During a storm the school lost 8% of its roof tiles. If there were 850 tiles on the roof before the storm, how many were lost? **68 tiles**

**% Increase**

1. The temperature in a furnace was 600˚C. It rose by 13%. What is the new temperature?

**678˚C**

1. A holiday to an eco tourist resort for a family of 4 cost £10,500 last year. This year the price rose by 8%. How much does it cost this year? **£11,340**

**% Decrease**

a) 8.2cm of snow fell one evening. By noon the following day, 30% had melted. What was the depth of the remaining snow? **5.74cm**

b) A container was left on a windowsill with 4 litres of water inside it and 15% was evaporated by the sun. How much water was left in the container? **3.41 litres**