

E1.11 Ratios (Inc Scales)

Question Paper

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Level	Core
Topic	E1. Number
Sub-Topic	E1.11 Ratios (Inc Scales)
Booklet	Question Paper

Time Allowed: 18 minutes

Score: /15

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

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1 A wildlife park covers an area of 18 hectares.

(a) The 18 hectares is divided between enclosures, paths and buildings in the ratio

$$\text{enclosures} : \text{paths} : \text{buildings} = 11 : 14 : 5.$$

(i) Show that the area for enclosures is 6.6 hectares.

[1]

(ii) Calculate the area for paths and the area for buildings.

Paths hectares

Buildings hectares [2]

(b) Of the 6.6 hectares for enclosures, $\frac{7}{11}$ is for mammals and 30% is for reptiles.

Calculate the area for mammals and the area for reptiles.

Mammals hectares

Reptiles hectares [2]

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(c) The table shows the opening times of the wildlife park.

Days	Opening times
Monday to Friday	09 30 to 17 15
Saturday and Sunday	10 00 to 18 30

(i) Work out how long, in hours and minutes, the wildlife park is open on a Wednesday.

..... h min [1]

(ii) Calculate the total time, in hours and minutes, that the wildlife park is open in one week.

..... h min [2]

(d) This table shows the ticket prices for the wildlife park.

Adult	\$11.00
Senior (age 65 and over)	\$9.25
Child (age 4 to 16)	\$7.50
Child (age 3 and under)	Free

Mr Lu visits the wildlife park with his wife, their children (aged 6 and 2) and his parents (both aged 67).

(i) Work out the total cost of the tickets for this visit.

\$..... [2]

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- (ii) Mr Lu has a voucher for the wildlife park that reduces the total cost of the tickets to \$42.

Calculate the percentage saving.

.....% [3]

- 2 The total mass of 38 spoons is 1824 g.

Work out the mass of 53 spoons.

Answer g [2]