



Class 9 Maths – Ganita Manjari



Chapter 10: How Quantities Combine: Understanding Data



Exercise Set 10.4 – Questions & Solutions

1. 🐾 IUCN Red List – Animal Species

Question:

The following stacked column chart shows the number of animal species in the IUCN Red List, by class, over time.

- (i) What does the number **14,234** on the top of the column 2019 represent?
- (ii) Approximately how many reptile species were in the list in 2016?
- (iii) Which class(es) of species have seen a relatively small increase in count between 2007 and 2019?

Solution:

(i) 📊 Meaning of 14,234

The number **14,234** represents the **total number of animal species in the IUCN Red List in 2019**, across all the classes shown in the chart.

✅ **Answer: 14,234 is the total number of animal species in the IUCN Red List in 2019.**

(ii) 🦎 Reptile Species in 2016

From the stacked column for **2016**, the reptile section is approximately **1,000 species**.

✅ **Answer: Approximately 1,000 reptile species.**

(iii) **Relatively Small Increase**

Comparing the 2007 and 2019 columns, the classes that show a relatively small increase are:

- Reptiles
- Amphibians

✓ **Answer: Reptiles and amphibians.**

2. **Wickets Taken at Home and Overseas**

Question:

The wickets taken by a bowler in International Cricket matches till 2025 are shown in the table. Complete the given stacked bar charts (the bar lengths can be approximate).

	Tes t	ODI	T20
Home	62	100	32
Overseas	172	49	71

(i) **Comparing the Total Wickets Taken at Home vs. Overseas**

Solution:

Home

Total wickets:

$$= 62 + 100 + 32$$

$$= 194$$

Overseas

Total wickets:

$$= 172 + 49 + 71$$

$$= 292$$

Therefore, the stacked bars should represent:

- Home = 194 wickets
- Overseas = 292 wickets

For the chart:

Home:

- Test = 62
- ODI = 100
- T20 = 32

Overseas:

- Test = 172
- ODI = 49
- T20 = 71

✓ Answer: Home = 194 wickets; Overseas = 292 wickets.

(ii) The Total Wickets Taken in Each Format

Solution:

Test

$$= \text{Home Test} + \text{Overseas Test}$$

$$= 62 + 172$$

= **234 wickets**

ODI

= Home ODI + Overseas ODI

= 100 + 49

= **149 wickets**

T20

= Home T20 + Overseas T20

= 32 + 71

= **103 wickets**

Therefore:

Format	Home	Overseas	Total
		s	
Test	62	172	234
ODI	100	49	149
T20	32	71	103

✓ **Answer:**

- **Test = 234 wickets**
- **ODI = 149 wickets**
- **T20 = 103 wickets**

Quick Answer Key – Exercise Set 10.4

1. (i) 14,234 = Total animal species in the IUCN Red List in 2019.

1. (ii) Approximately **1,000 reptile species**.

1. (iii) **Reptiles and amphibians**.

2. (i)

- Home = **194 wickets**
- Overseas = **292 wickets**

2. (ii)

- Test = **234 wickets**
- ODI = **149 wickets**
- T20 = **103 wickets**