



MIXED RATIO PROBLEMS 6:2

1. Butterfly Garden

A garden has a ratio of **3 butterflies** for every **7 bees**.

If there are **12 butterflies**, how many bees should there be?



2. Recycling Challenge

A class recycles **33 plastic bottles**, **12 cans**, and **9 cardboard boxes**.

What is the **fraction of all the recycling was cans**?

Write the fraction in **simplest form**.

3. Coral Reef Creatures

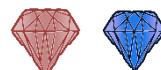


In a coral reef, there are **30 clownfish**, **14 sea turtles**, and **27 colourful reef fish**.

Write down the **ratio of sea turtles to clownfish** and simplify it.

4. Gamer Loot

A player collects **9 fire crystals** for every **5 water crystals**.



If the player collected a total of 42 crystals, **how many fire crystals** and **how many water crystals** did they collect?

5. Tree Leaf Colours

A tree has a ratio of **2 red leaves** to **5 green leaves**. Complete the ratio table:

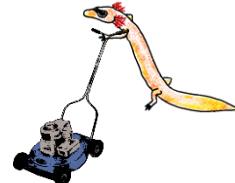


Red Leaves	Green Leaves
2	5
4	
8	
12	
20	



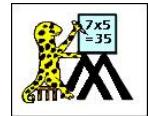
6. Out in the garden

It takes Captain 7 hours to mow 4 large lawns with his mower.



At this rate how many lawns could he mow in 35 hours?

How long is it taking him to mow each lawn?



MIXED RATIO PROBLEMS 6:2 ANSWERS

1. Butterfly Garden

A garden has a ratio of **3 butterflies** for every **7 bees**.

If there are **12 butterflies**, how many bees should there be?



$3:7 = 12:28$. There should be **28 bees**.

2. Recycling Challenge

A class recycles **33 plastic bottles**, **12 cans**, and **9 cardboard boxes**.

What is the **fraction of all the recycling was cans**? $\frac{12}{54}$

Write the fraction in **simplest form**. $\frac{12}{54} = \frac{6}{27} = \frac{2}{9}$ in simplest form

3. Coral Reef Creatures



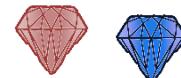
In a coral reef, there are **30 clownfish**, **14 sea turtles**, and **27 colourful reef fish**.

Write down the **ratio of sea turtles to clownfish** and **simplify it**.

$14:30 = 7:15$ sea turtles to clownfish

4. Gamer Loot

A player collects **9 fire crystals** for every **5 water crystals**.



If the player collected a total of 42 crystals, **how many fire crystals** and **how many water crystals** did they collect? $9:5$. Total is **14 crystals**. $42 \div 14 = 3$.

$9 \times 3 = 27$; $5 \times 3 = 15$. So the ratio is **27:15**. We need **27 fire** and **15 water crystals**.

5. Tree Leaf Colours

A tree has a ratio of **2 red leaves** to **5 green leaves**.

Complete the ratio table:



Red Leaves	Green Leaves
2	5
4	10
8	20
12	30
20	50



6. Out in the garden

It takes Captain 7 hours to mow 4 large lawns with his mower.

At this rate how many lawns could he mow in 35 hours? $7:4 = 35:20$. He could mow **20 lawns**.

How long is it taking him to mow each lawn? $1 \text{ lawn} = \frac{7}{4} \text{ hours} = 1 \frac{3}{4} \text{ hours} = 1 \text{ h } 45 \text{ min}$