

01

Farhan bought some mini pizzas for his daughter's birthday party. There were 10 children at the party. Each child ate $2\frac{1}{2}$ mini pizzas. How many mini pizzas did he buy altogether ?



$$10 \times 2\frac{1}{2} = 10 \times \frac{5}{2} \leftarrow \text{Express the mixed number as an improper fraction}$$

$$= = {}^5 10 \times \frac{5}{2_1} \leftarrow \text{Divide both the numerator and the denominator by a common factor, 2}$$

$$= \frac{5 \times 5}{1 \times 1}$$

$$= \mathbf{25}$$

Farhan bought **25** mini pizzas altogether

02

$\frac{3}{10}$ of Vitesh's stamp collection were local stamps and the remaining stamps were foreign. He gave $\frac{2}{7}$ of his foreign stamps away. What fraction of his stamp collection did he give away ?



$$1 - \frac{7}{10} = \frac{3}{10}$$

$\frac{3}{10}$ of Vitesh's stamp collection were foreign stamps.

$$\frac{2}{7} \times \frac{3}{10} = \frac{1}{5}$$

He gave away $\frac{1}{5}$ of his stamp collection.

$$\frac{3}{5} \times 14 = 8\frac{2}{5}$$

She used $8\frac{2}{5}$ m of cloth to make the dress

$$14 - 8\frac{2}{5} = 5\frac{3}{5}$$

She had $5\frac{3}{5}$ m of cloth left

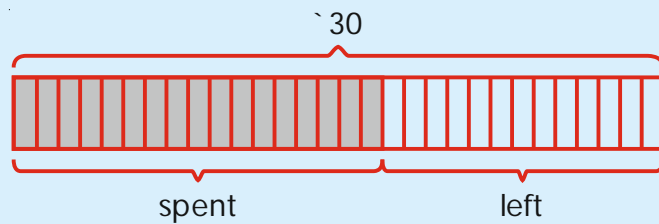
03

Gaurav was given ₹30. She spent $\frac{1}{6}$ of it on Monday and $\frac{2}{5}$ of it on Tuesday. How much money had he left ?



$$\frac{1}{6} + \frac{2}{5} = \frac{5}{30} + \frac{12}{30}$$

He spent $\frac{17}{30}$ of the money on both days



$$30 \text{ units} \rightarrow ₹30$$

$$1 \text{ unit} \rightarrow ₹30 \div 30 = ₹1$$

$$13 \text{ units} \rightarrow 13 \times ₹1 = ₹13$$

She had ₹13 left

$$6\frac{1}{3} + \frac{5}{6} = 7\frac{1}{6}$$

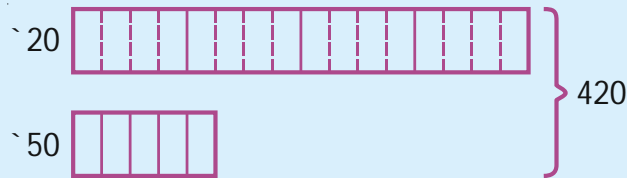
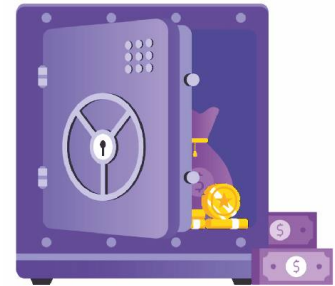
His brother bought $7\frac{1}{6}$ kg of sugar

$$7\frac{1}{6} + 6\frac{1}{3} = 13\frac{1}{2}$$

They bought $13\frac{1}{2}$ kg of sugar

04

A safety deposit box contained some twenty-rupee notes and some fifty-rupee notes. $\frac{1}{4}$ of the number of twenty-rupee notes is equal to $\frac{4}{5}$ of the number of fifty-rupee notes. There are 420 notes altogether in the box. Find the total value of all the notes in the safety deposit box.



$$16 \text{ units} + 5 \text{ units} = 21 \text{ units}$$

$$21 \text{ units} \rightarrow 420$$

$$1 \text{ unit} \rightarrow 420 \div 21 \\ = 20$$

$$16 \text{ units} \rightarrow 16 \times 20 \\ = 320$$

$$5 \text{ units} \rightarrow 5 \times 20 \\ = 100$$

$$320 \times ₹20 = ₹6400$$

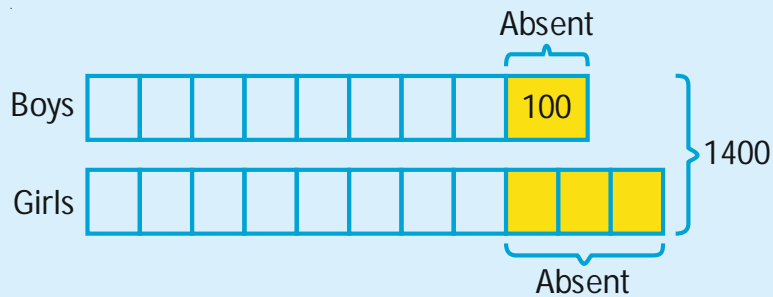
$$100 \times ₹50 = ₹5000$$

$$₹6400 + ₹5000 = ₹11400$$

The total value of all the notes in the safety deposit box is ₹11400

05

A school had an enrolment of 1400 pupils. When 100 boys and $\frac{3}{8}$ of the girls were absent, the number of girls present was equal to the number of boys present. How many more girls than boys were there in the school ?



$$8 \text{ units} + 5 \text{ units} + 100 \rightarrow 1400$$

$$13 \text{ units} \rightarrow 1300$$

$$1 \text{ unit} \rightarrow 1300 \div 13 = 100$$

$$(8 \times 100) - (5 \times 100 + 100)$$

$$= 800 - 600 = 200$$

There were 200 more girls than boys in the school