

Class 6 Maths

Fractions – NCERT Solutions

7.1 Fractional Units and Equal Shares

Page No. 152 – Figure it Out

1. Three guavas together weigh 1 kg. If they are roughly of the same size, each guava will roughly weigh ____ kg.
2. A wholesale merchant packed 1 kg of rice in four packets of equal weight. The weight of each packet is ____ kg.
3. Four friends ordered 3 glasses of sugarcane juice and shared it equally among themselves. Each one drank ____ glass of sugarcane juice.
4. The big fish weighs $\frac{1}{2}$ kg. The small one weighs $\frac{1}{4}$ kg. Together they weigh ____ kg.
5. Arrange these fraction words in order of size from the smallest to the biggest:
 - One and a half
 - Three quarters
 - One and a quarter
 - Half
 - Quarter
 - Two and a half

7.1 Fractional Units and Equal Shares

Answers with Detailed Steps

1. Three guavas together weigh 1 kg. If they are roughly of the same size, each guava will roughly weigh ____ kg.

Solution:

Total weight of 3 guavas = 1 kg

To find the weight of 1 guava:

$$1 \div 3 = 1/3$$

Answer:

Each guava weighs: $1/3$ kg

2. A wholesale merchant packed 1 kg of rice in four packets of equal weight. The weight of each packet is ____ kg.

Solution:

Total rice = 1 kg

Number of packets = 4

Weight of each packet:

$$1 \div 4 = 1/4$$

Answer:

Each packet weighs: $1/4$ kg

3. Four friends ordered 3 glasses of sugarcane juice and shared it equally among themselves. Each one drank ____ glass of sugarcane juice.

Solution:

Total juice = 3 glasses

Number of friends = 4

Juice each friend gets:

$$3 \div 4 = \frac{3}{4} \text{ glass}$$

Answer:

Each friend drank: $\frac{3}{4}$ glass

4. The big fish weighs $\frac{1}{2}$ kg. The small fish weighs $\frac{1}{4}$ kg. Together they weigh ____ kg.

Solution:

We add the two fractions.

$$\frac{1}{2} + \frac{1}{4}$$

First make the denominators same.

$$\text{LCM of 2 and 4} = 4$$

Convert:

$$\frac{1}{2} = \frac{2}{4}$$

Now add:

$$\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$$

Answer:

Together they weigh:

$$\frac{3}{4} \text{ kg}$$

5. Arrange these fraction words in order of size from the smallest to the biggest

- One and a half
 - Three quarters
 - One and a quarter
 - Half
 - Quarter
 - Two and a half
-

Step 1: Convert into numbers

Fraction Words Fraction**Quarter** $\frac{1}{4}$ **Half** $\frac{1}{2}$ **Three quarters** $\frac{3}{4}$ **One and a quarter** $1 \frac{1}{4}$ **One and a half** $1 \frac{1}{2}$ **Two and a half** $2 \frac{1}{2}$ **Step 2: Arrange from smallest to biggest****Answer:**

1. Quarter
2. Half
3. Three quarters
4. One and a quarter
5. One and a half
6. Two and a half