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## NCERT Class 7 Mathematics Solutions: Chapter 8 – Comparing Quantities Exercise 8.2 Part 4 (For CBSE, ICSE, IAS, NET, NRA 2022)

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## MEANING OF PERCENT

A ratio of a number to 100 is called a **percent**. Percent means *per hundred*, and is represented by the symbol %.

**Any ratio with 100 as the second number can be expressed in three ways. You can write the ratios as a fraction, a decimal, and a percent.**

$\frac{25}{100}$	0.25	25%
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1. Convert given percents to decimal fractions and also to fractions in simplest forms:

- (a) 25%
- (b) 150%
- (c) 20%
- (d) 5

Answer:

Below table of Percentage, Fractions in simplest form and decimal form:

S. No.	Per cents	Fractions	Simplest form	Decimal form
(a)	25%	$\frac{25}{100}$	$\frac{1}{4}$	0.25
(b)	150%	$\frac{150}{100}$	$\frac{3}{2}$	1.5
(c)	20%	$\frac{20}{100}$	$\frac{1}{5}$	0.2
(d)	5%	$\frac{5}{100}$	$\frac{1}{20}$	0.05

*Table of Percentage, Fractions in Simplest Form and Decimal Form*

2. In a city, 30% are females 40% are males and remaining are children. What percent are children?

Answer:

Given:

Percentage of females = 30%

Percentage of males = 40%

Total percentage of females and males =  $30 + 40 = 70\%$

Percentage of children = Total percentage – Percentage of males and females  
 $= 100\% - 70\% = 30\%$

So, in city 30% are children's.

3. Out of 15,000 voters in a constituency, 60% voted. Find the percentage of voters who did not vote. Can you now find how many actually did not vote?

Answer:

Total voters = 15,000

Percentage of voted candidates = 60%

Percentage of not voted candidates =  $100 - 60$   
 $= 40\%$

Actual candidates, who did not vote = 40% of 15000

$$= \frac{40}{100} \times 15000$$

$$= 6,000$$

So, 6,000 candidates did not vote.

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