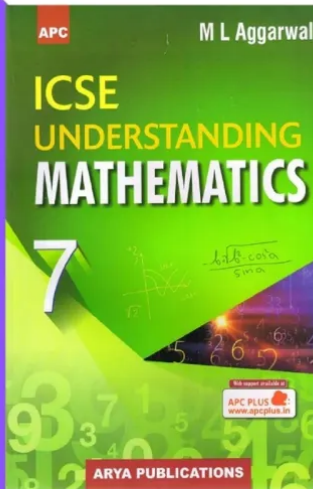


ML Aggarwal Solutions for Class 7 Maths

Chapter 7- Percentage and Its Applications



ML Agrawal Solutions

CLASS 7 MATHS

Chapter 7: Percentage and
Its Applications

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ML Aggarwal Solutions for Class 7 Maths

Chapter 7- Percentage and Its Applications

Class 7: Maths Chapter 7 solutions. Complete Class 7 Maths Chapter 7 Notes.

ML Aggarwal Solutions for Class 7 Maths Chapter 7- Percentage and Its Applications

ML Aggarwal 7th Maths Chapter 7, Class 7 Maths Chapter 7 solutions

1. Convert the following percents into fractions in simplest form:

(i) 25%

Solution:-

25% is written in the form for fraction as = $25/100$

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

(ii) 150%

Solution:-

150% is written in the form for fraction as = $150/100$

$$= 15/10$$

$$= 3/2$$

(iii) $7\frac{1}{2}\%$

Solution:-

First convert the mixed fraction into improper fraction,

$$7\frac{1}{2}\% = (15/2)\%$$

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Then, $(15/2)\%$ is written in the form for fraction as $= (15/2)/100$

$$= (15/(2 \times 100))$$

$$= 15/200$$

$$= 3/40$$

(iv)

$$33\frac{1}{3} \%$$

Solution:-

First convert the mixed fraction into improper fraction,

$$33\frac{1}{3} \% = (100/3)\%$$

Then, $(100/3)\%$ is written in the form for fraction as $= (100/3)/100$

$$= (100/(3 \times 100))$$

$$= 1/3$$

(2) Convert the following fractions into percents:

(i) $1/8$

Solution:-

$1/8$ is converted into percent as,

$$= (1/8)/100$$

$$= (1/8) \times 100$$

$$= 12.5\%$$

(ii) $5/4$

Solution:-

$5/4$ is converted into percent as,

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$$= (5/4)/100$$

$$= (5/4) \times 100$$

$$= 5 \times 25$$

$$= 125\%$$

(iii) 9/16

Solution:-

9/16 is converted into percent as,

$$= (9/16)/100$$

$$= (9/16) \times 100$$

$$= 56\frac{1}{4} \%$$

(iv) 3/7

Solution:-

3/7 is converted into percent as,

$$= (3/7)/100$$

$$= (3/7) \times 100$$

$$=$$

$$42\frac{6}{7} \%$$

(v) 11/15

Solution:-

11/15 is converted into percent as,

$$= (11/15)/100$$

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$$= (11/15) \times 100$$

=

$$73\frac{1}{3}\%$$

(vi)

$$1\frac{3}{8}\%$$

Solution:-

Convert the mixed fraction into improper fraction we get,

$$11/8$$

11/8 is converted into percent as,

$$= (11/8)/100$$

$$= (11/8) \times 100$$

$$= 137.5\%$$

3.

(i) 6 students out of 40 students in a class are absent. What percentage of the students are absent?

Solution:-

From the question it is given that,

Total number of students in the class is 40

Number of students were absent = 6

Then, percentage of the students are absent = $(6/40) \times 100$

$$= 0.15 \times 100$$

$$= 15\%$$

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(ii) Antony secured 384 marks out of 500 marks. Find the percentage of marks secured by Antony.

Solution:-

From the question it is given that,

Antony secured 384 marks

Maximum marks = 500 mark

Then, the percentage of marks secured by Antony = $(384/500) \times 100$

$$= 0.768 \times 100$$

$$= 76.8\%$$

(iii) A shop has 500 shirts, out of which 15 are defective. What percentage of shirts are defective?

Solution:-

Total number of shirts that shop has = 500

Number of defective shirts = 15

Then, percentage of shirts are defective = $(15/500) \times 100$

$$= 0.03 \times 100$$

$$= 3\%$$

(iv) Vani has a collection of bangles. She has 20 gold bangles and 10 silver bangles. What is the percentage of each type of bangles?

Solution:-

From the question it is given that,

Vani has a collection of bangles

Number of gold bangles = 20

Number of silver bangles = 10

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Total number of bangles she has = $20 + 10 = 30$ bangles

Then, percentage of gold bangles = $(20/30) \times 100$

= 66.67%

Percentage of silver bangles = $(10/30) \times 100$

= 33.34%

(v) There are 120 voters, 90 of them voted. What percent did not vote?

Solution:-

From the question it is given that,

Total number of voters = 120

Number of voters voted = 90

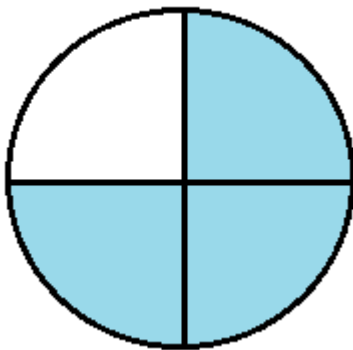
Number of voters did not vote = $120 - 90 = 30$

Then, percent did not vote = $(30/120) \times 100$

= 25%

4. Estimate the part of the figure which is shaded and hence find the percentage of the part which is shaded.

(i)



Solution:-

From the figure,

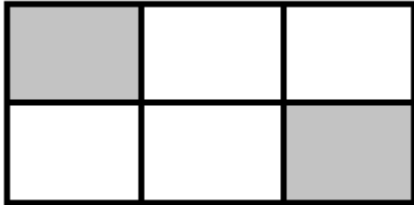
The shaded part = $\frac{3}{4}$

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Then, the percentage of the part which is shaded = $(\frac{3}{4}) \times 100$

= 75%

(ii)



Solution:-

From the figure,

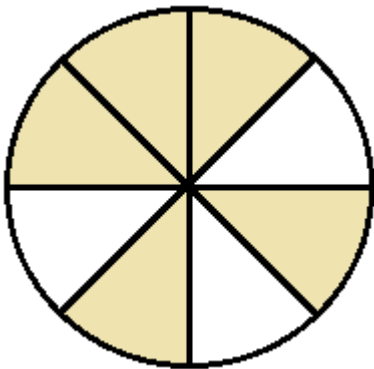
The shaded part = $\frac{2}{6}$

= $\frac{1}{3}$

Then, the percentage of the part which is shaded = $(\frac{1}{3}) \times 100$

= 33.34%

(iii)



Solution:-

From the figure,

The shaded part = $\frac{5}{8}$

Then, the percentage of the part which is shaded = $(\frac{5}{8}) \times 100$

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$$= 62.5\%$$

5. Convert the following percentages into ratios in simplest form:

(i) 14%

Solution:-

14% can be written as,

$$= 14/100$$

$$= 7/50$$

It can be written in ratio form as = 7: 50

(ii) 7/4%

Solution:-

7/4% can be written as,

$$= (7/4)/100$$

$$= 7/(4 \times 100)$$

$$= 7/400$$

It can be written in ratio form as = 7: 100

(iii) 100/3%

Solution:-

100/3% can be written as,

$$= (100/3)/100$$

$$= 100/(3 \times 100)$$

$$= 1/3$$

It can be written in ratio form as = 1: 3

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(iv) 37.5%

Solution:-

37.5% can be written as,

$$= 37.5/100$$

$$= 375/1000$$

$$= 3/8$$

It can be written in ratio form as = 3: 8

6. Express the following ratios as percentages:

(i) 5: 4

Solution:-

Above ratios can be written as = 5/4

$$\text{Percentage} = (5/4) \times 100$$

$$= 5 \times 25$$

$$= 125\%$$

(ii) 1: 1

Solution:-

Above ratios can be written as = 1/1

$$\text{Percentage} = (1/1) \times 100$$

$$= 100\%$$

(iii) 2: 3

Solution:-

Above ratios can be written as = 2/3

$$\text{Percentage} = (2/3) \times 100$$

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$$= 66.67\%$$

(iv) 9: 16

Solution:-

Above ratios can be written as $= 9/16$

$$\text{Percentage} = (9/16) \times 100$$

$$= 0.5625 \times 100$$

$$= 56.25\%$$

7. An alloy consists of 7 parts of zinc and 33 parts of copper. Find the percentage of copper in the alloy.

Solution:-

From the question it is given that,

An alloy consists of 7 parts of zinc

33 parts of copper

$$\text{Then, total parts contain in the alloy} = 33 + 7 = 40$$

$$\text{So, percentage of copper in the alloy} = (33/40) \times 100$$

$$= 82.5\%$$



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- Chapter 1- Integers
- Chapter 2- Fractions and Decimals
- Chapter 3- Rational Numbers
- Chapter 4- Exponents and Powers
- Chapter 5- Sets
- Chapter 6- Ratio and Proportion
- Chapter 7- Percentage and Its Applications
- Chapter 8- Algebraic Expressions
- Chapter 9- Linear Equations and Inequalities
- Chapter 10- Lines and Angles
- Chapter 11- Triangles and its Properties
- Chapter 12- Congruence of Triangles
- Chapter 13- Practical Geometry
- Chapter 14- Symmetry
- Chapter 15- Visualising Solid Shapes
- Chapter 16- Perimeter and Area
- Chapter 17- Data Handling

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About ML Aggarwal

M. L. Aggarwal, is an Indian mechanical engineer, educator. His achievements include research in solutions of industrial problems related to fatigue design. Recipient Best Paper award, Manipal Institute of Technology, 2004. Member of TSTE.

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