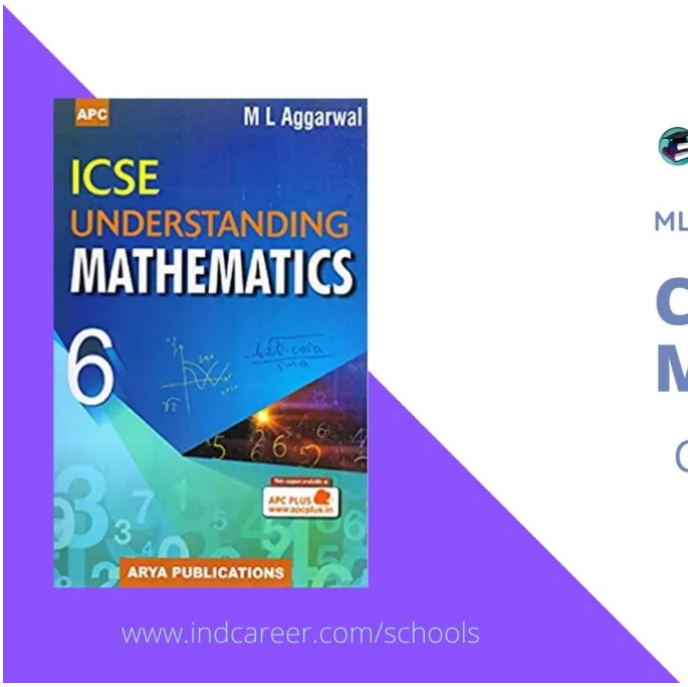
# ML Aggarwal Solutions for Class 6 Maths

# Chapter 8- Ratio and Proportion

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# ML Aggarwal Solutions for Class 6 Maths Chapter 8- Ratio and Proportion

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## ML Aggarwal Solutions for Class 6 Maths Chapter 8- Ratio and Proportion

ML Aggarwal 6th Maths Chapter 8, Class 6 Maths Chapter 8 solutions

Exercise

**1. Express the following ratios in simplest form:**

**(i) 20 : 40**

**(ii)40 : 20**

**(iii) 81 : 108**

**(iv) 98 : 63**

**Solution:**

(i) 20 : 40 = 20/40 = ½ = 1 : 2

(ii) 40 : 20 = 40/20 = 2/1 = 2 : 1

(iii) 81 : 108 = 81/108 = 9/12 = ¾ = 3 : 4

(iv) 98 : 63 = 98/63 = 14/9 = 14 : 9

**2. Fill in the missing numbers in the following equivalent ratios::**

$(i)\ \frac{14}{21}=\frac{\ldots}{3}=\frac{6}{\ldots}$

$(ii)\ \frac{15}{18}=\frac{\ldots}{6}=\frac{10}{\ldots}=\frac{\ldots}{30}$

Solution

$(i)\ \frac{14}{21}=\frac{\ldots}{3}=\frac{6}{\ldots}$

$=\frac{14}{21}=\frac{2}{3}=\frac{6}{9}$

$(\because \frac{14\div 7}{21\div 7}=\frac{2}{3}$ and $\frac{2\times 3}{3\times 3}=\frac{6}{9})$

$(ii)\ \frac{15}{18}=\frac{\ldots}{6}=\frac{10}{\ldots}=\frac{\ldots}{30}$

$=\frac{15}{18}=\frac{5}{6}=\frac{10}{12}=\frac{25}{30}$

$(\because \frac{15\div 3}{18\div 3}=\frac{5}{6}, \frac{5\times 2}{6\times 2}=\frac{10}{12}$ and $\frac{5\times 5}{6\times 5}=\frac{25}{30})$

**3. Find the ratio of each of the following in simplest form :**

**(i) 2.1 m to 1.2 m**

**(ii) 91 cm to 1.04m**

**(iii) 3.5 kg to 250gm**

**(iv) 60 paise to 4 rupees**

**(v) 1 minute to 15 seconds**

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**(vi) 15 mm to 2 cm**

**Solution:**

(i) 2.1 m : 1.2 m

= 2.1/ 1.2

= 21/12 × 10/10

= 7 : 4

(ii) 91 cm : 1.04mm or (1.04 × 100) cm = 104 cm [As 1 m = 100 cm]

= 91 cm : 104 cm

= 91/104

= 7 : 8

(iii) 3.5 kg : 250 gm or (3.5 × 1000) gm : 250 gm [As 1 kg = 1000 gm]

= 3500 gm : 250 gm

= 3500/250

= 14/1

= 14 : 1

(iv) 60 paise : 4 rupees or 60 paise : (4 × 100) paise [As 1 Rs = 100 paise]

= 60 paise : 400 paise

= 60/400

= 6/40

= 3/20

= 3 : 20

(v) 1 minute : 15 seconds or 60 seconds : 15 seconds [As 1 minute = 60 seconds]

= 60 : 15

= 60/15

= 4/1

= 4 : 1

(vi) 15 mm : 2 cm or 15 mm : (2 × 10) mm [As 1 cm = 10 mm]

= 15 mm : 20 mm

= 15/20

= 3/4

= 3 : 4

**4. The length and the breadth of a rectangular park are 125 m and 60 m respectively. What is the ratio of the length to the breadth of the park?**

**Solution:**

Given,

Length of rectangular park = 125 m

Breadth of rectangular park = 60 m

Hence, the ratio of the length to the breadth of park is

125/60 = 25/12 = 25 : 12

**5. The population of village is 4800. If the numbers of females is 2160, find the ratio of males to that of females.**

**Solution:**

Given,

Population of village = 4800

No. of females = 2160

No. of males = 4800 – 2160 = 2640

No. of males : No. of females

= 2640 : 2160

= 2640/2160

= 264/216

= 11/9

= 11 : 9

**6. In a class, there are 30 boys and 25 girls. Find the ratio of the numbers of**

**(i) boys to that of girls.**

**(ii) girls to that of total number of students.**

**(iii) boys to that of total number of students.**

**Solution:**

Given,

Boys = 30, girls = 25

Total students = 30 + 25 = 55

(i) boys : girls = 30 : 25

= 30/25 = 6/5 = 6 : 5

(ii) girls : Total no. of students = 25 : 55

= 25/55 = 5/11 = 5 : 11

(iii) Boys : Total no. of students = 30 : 55

= 30/55 = 6/11 = 6 : 11

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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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