

Find Third and Fourth Proportion

Question 1: Find the third proportional to 30, 37.

Solution: In this we have find fourth proportional that is x , so we can write

$$30 : 37 = 37 : x$$

$$\frac{30}{37} = \frac{37}{x} \Rightarrow x = 45.63$$

Question 2: Find the third proportional to 6, 18.

Solution: We have to find fourth proportional that is x . so we can write this

$$6 : 18 :: 18 : x$$

$$6 : 18 = 18 : x$$

$$\frac{6}{18} = \frac{18}{x} \Rightarrow x = 54$$

Question 3: Find the fourth proportional to the number 2, 3, 4.

Solution: Let x be the fourth proportional $2 : 3 :: 4 : x$

$$\Rightarrow \frac{2}{3} = \frac{4}{x} \Rightarrow 2x = 12$$

$$x = 6$$

Question 4: Find the fourth proportional to the numbers 3 : 6 : 18 .

Solution: Let x be the fourth proportional

$$3 : 6 :: 18 : x$$

$$\frac{3}{6} = \frac{18}{x}$$

$$3x = 108 \Rightarrow x = 36$$

Question 5: Find the third proportional to 6, 7.

Solution: In this we have find fourth proportional that is x , so we can write

$$6 : 7 = 7 : x$$

$$\frac{6}{7} = \frac{7}{x} \Rightarrow 6x = 49$$

$$x = 8.17$$

Question6: Find the fourth proportional to the number 3, 5, 9.

Solution: Let x be the fourth proportional $3 : 5 :: 9 : x$

$$\Rightarrow \frac{3}{5} = \frac{9}{x} \Rightarrow 3x = 45$$

$$x = 15$$