

Mathematics

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(Chapter – 4) (Simple Equations)

(Class – VII)

(g) Let the number be x .

According to the question, $\frac{5}{2}x - 7 = \frac{11}{2}$

$$\Rightarrow \frac{5}{2}x = \frac{11}{2} + 7$$

$$\Rightarrow \frac{5}{2}x = \frac{11+14}{2}$$

$$\Rightarrow \frac{5}{2}x = \frac{25}{2}$$

$$\Rightarrow 5x = \frac{25 \times 2}{2}$$

$$\Rightarrow 5x = 25$$

$$\Rightarrow x = \frac{25}{5}$$

$$\Rightarrow x = 5$$

Question 2:

Solve the following:

- (a) The teacher tells the class that the highest marks obtained by a student in her class are twice the lowest marks plus 7. The highest score is 87. What is the lowest score?
- (b) In an isosceles triangle, the base angles are equal. The vertex angle is 40° . What are the base angles of the triangle? (Remember, the sum of three angles of a triangle is 180° .)
- (c) Sachin scored twice as many runs as Rahul. Together, their runs fell two short of a double century. How many runs did each one score?

Answer 2:

(a) Let the lowest marks be y .

According to the question, $2y + 7 = 87$

$$\Rightarrow 2y = 87 - 7$$

$$\Rightarrow 2y = 80$$

$$\Rightarrow y = \frac{80}{2}$$

$$\Rightarrow y = 40$$

Thus, the lowest score is 40.

