1. Express –79 as a rational number.

2. Write $\frac{63}{-140}$ in standard form.

3. How many rational numbers exists between –22 and –23?

Case Study

Concert tickets usually cost Rs. $120\frac{4}{5}$ per person. For students they are priced at $\frac{1}{4}$ of the normal cost.

Choose the correct option:

(a) How much will 6 tickets cost for students?

a. ₹ $121\frac{1}{5}$ b. ₹ $181\frac{1}{5}$ c. ₹ $87\frac{2}{5}$ d. ₹ $200\frac{1}{5}$

(b) How much money is saved by 6 students?

a. ₹ 600 b. ₹ 548.6 c. ₹ 540.5 d. ₹ 543.6

(c) How much will 7 tickets cost for adults?

a. ₹ 845.6 b. ₹ 820.6 c. ₹ 875.6 d. ₹ 790.6

4. Represent the following rational numbers on the number line:

a. $\frac{-3}{4}$ b. $\frac{31}{-6}$ c. $\frac{-1}{2}$ d. $\frac{3}{4}$

5. Write the following rational numbers in the standard form:

a. $\frac{5}{15}$ b. $\frac{33}{-77}$ c. $\frac{-24}{40}$ d. $\frac{-45}{-105}$

6. Compare the following rational numbers:

a. $\frac{-9}{27}, \frac{6}{-18}$ b. $\frac{3}{-8}, \frac{-15}{40}$ c. $\frac{-5}{7}, \frac{10}{-6}$ d. $\frac{-11}{7}, \frac{33}{21}$

7. Two which number should $\left(\frac{2}{3}\right)$ be added to give $\left(\frac{-11}{4}\right)$?

8. The sides of a triangular field are $14\frac{1}{2}m, 13\frac{1}{2}m$ and $9m$. Find its perimeter.

9. The product of two rational numbers is $\frac{-40}{3}$. If one of the numbers is $\frac{-5}{2}$, find the other.

10. In a fruit shop $2\frac{1}{4}\text{kg}$ of apples cost ₹ 90 . At this rate what is the cost of 750gm of apples in terms of paisa.

11. From a rode of 12m length, two pieces of lengths $2\frac{3}{4}m$ and $\frac{13}{8}m$ are cut off. Find the length of the remaining rode.

12. Divide the sum of $\frac{5}{9}$ and $\frac{12}{25}$ by their difference.