



Exercise 4A

$$\Rightarrow 13x = 6 \times (-65)$$

$$\Rightarrow x = \frac{6 \times (-65)}{13}$$

$$\Rightarrow x = 6 \times (-5)$$

$$\Rightarrow x = -30$$

$$\text{(v)} \frac{16}{x} = -4$$

$$\Rightarrow x = \frac{16}{(-4)}$$

$$\Rightarrow x = (-4)$$

$$\text{vi)} \frac{-48}{x} = 2$$

$$\Rightarrow \frac{-48}{2} = \frac{x}{1}$$

$$\Rightarrow 2x = (-48) \times 1$$

$$\Rightarrow x = \frac{-48}{2}$$

$$x = (-24)$$

Q21

**Answer :**

$$\text{(i)} \frac{8}{-12} \text{ and } \frac{-10}{15}$$

$$8 \times 15 = 120$$

$$\text{And } (-10) \times (-12) = 120$$

$$8 \times 15 = (-10) \times (-12)$$

$$\therefore \frac{8}{-12} = \frac{-10}{15}$$

Therefore, the rational numbers are equal.

$$\text{ii) } \frac{-3}{9}, \frac{7}{-21}$$

$$(-3) \times (-21) = 63$$

$$\text{And } 7 \times 9 = 63$$

$$\therefore (-3) \times (-21) = 7 \times 9$$

$$\frac{-3}{9} = \frac{7}{-21}$$

Therefore, the rational numbers are equal.

$$\text{(iii) } \frac{-8}{-14}, \frac{15}{21}$$

$$(-8) \times 21 = -168$$

$$\text{And } 15 \times (-14) = -210$$

$$(-8) \times 21 \neq 15 \times 14$$

Therefore, the rational numbers are not equal.

**Q22**

**Answer :**

(i) False

For example,  $-1$  is smaller than zero and is a rational number.

(ii) True

All integers can be written with the denominator 1.

(iii) False

Though 0 is an integer, when the denominator is 0, it is not a rational number.

For example,  $\frac{1}{0}$  is not a rational number.

(iv) True

(v) False

$-1$  is a rational number but not a fraction.

\*\*\*\*\*END\*\*\*\*\*