



#### Exercise 4A

$$\text{And } 4 \times (-36) = -144$$

$$9 \times (-16) = 4 \times (-36)$$

$$\frac{9}{4} = \frac{-36}{-16}$$

Therefore, they are equivalent rational numbers.

$$\text{(iv)} \frac{7}{15}, \frac{-28}{60}$$

We have:

$$7 \times 60 = 420$$

$$\text{And } 15 \times (-28) = -420$$

$$\therefore 7 \times 60 \neq 15 \times (-28)$$

Therefore, the rational numbers are not equivalent.

$$\text{(v)} \frac{3}{12}, \frac{-1}{4}$$

We have:

$$3 \times 4 = 12$$

$$\text{And } 12 \times (-1) = -12$$

$$12 \neq -12$$

Therefore, the rational numbers are not equivalent.

$$\text{(vi)} \frac{2}{3}, \frac{3}{2}$$

We have:

$$2 \times 2 = 4$$

$$\text{And } 3 \times 3 = 9$$

$$2 \times 2 \neq 3 \times 3$$

Therefore, the rational numbers are not equivalent.

Q20

**Answer :**

$$(i) \frac{-1}{5} = \frac{8}{x}$$

$$\Rightarrow -x = 5 \times 8$$

$$\Rightarrow x = -40$$

$$(ii) \frac{7}{-3} = \frac{x}{6}$$

$$\Rightarrow (-3)x = 7 \times 6$$

$$\Rightarrow x = \frac{(7 \times 6)}{(-3)}$$

$$\Rightarrow x = -14$$

$$(iii) \frac{3}{5} = \frac{x}{-25}$$

$$\Rightarrow 5x = 3 \times (-25)$$

$$\Rightarrow x = \frac{3 \times (-25)}{5}$$

$$\Rightarrow x = (-15)$$

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

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