Exercise 4A

Multiplying both the numerator and the denominator by 4:

$$\frac{-12\times4}{13\times4}=\frac{-48}{52}$$

$$\frac{-12}{13}=\frac{-48}{52}$$

(ii) Numerator of $\frac{-12}{13}$ is −12.

−12 should be multiplied by −5 to get 60

Multiplying its numerator and denominator by -5:

$$\frac{-12\times(-5)}{13\times(-5)}=\frac{60}{-65}$$

$$\frac{-12}{13}=\frac{60}{-65}$$

Q12

Answer :

(i) Denominator of $\frac{-8}{11}$ is 11.

Clearly, 11×2= 22

Multiplying both the numerator and the denominator by 2:

$$\frac{-8\times2}{11\times2}=\frac{-16}{22}$$

$$\frac{-8}{11}=\frac{-16}{22}$$

(ii) Denominator of $\frac{-8}{11}$ is 11.

Clearly, 11×5=55

Multiplying both the numerator and the denominator by 5:

$$\frac{-8\times5}{11\times5}=\frac{-40}{55}$$

$\frac{-8}{11} = \frac{-40}{55}$

Q13

Answer :

(i) Numerator of $\frac{14}{-5}$ is 14.

Clearly, $14 \times 4 = 56$

Multiplying both the numerator and the denominator by 4:

$\frac{14 \times 4}{-5 \times 4} = \frac{56}{-20}$

$\frac{14}{-5} = \frac{56}{-20}$

(ii) -70

Numerator of $\frac{14}{-5}$ is 14.

Clearly, $14 \times (-5) = -70$

Multiplying both the numerator and the denominator by -5:

$\frac{14 \times (-5)}{(-5) \times (-5)} = \frac{-70}{25}$

$\frac{14}{-5} = \frac{-70}{25}$

Q14

Answer :

(i) Denominator of $\frac{13}{-8}$ is -8.

Clearly, $(-8) \times 5 = -40$

Multiplying both the numerator and the denominator by 5:

$\frac{13 \times 5}{-8 \times 5} = \frac{65}{-40}$

********** END **********