



Rational Numbers Ex 4.2 Q1

Answer :

Rational number with positive denominators:

(i) Multiplying the number by -1 , we get:

$$\frac{-15}{-28} = \frac{-15 \times -1}{-28 \times -1} = \frac{15}{28}$$

(ii) Multiplying the number by -1 , we get:

$$\frac{6}{-9} = \frac{6 \times -1}{-9 \times -1} = \frac{-6}{9}$$

(iii) Multiplying the number by -1 , we get:

$$\frac{-28}{-11} = \frac{-28 \times -1}{-11 \times -1} = \frac{28}{11}$$

(iv) Multiplying the number by -1 , we get:

$$\frac{19}{-7} = \frac{19 \times -1}{-7 \times -1} = \frac{-19}{7}$$

Rational Numbers Ex 4.2 Q2

Answer :

Rational number with numerator:

(i) 6 is:

$$\frac{3 \times 2}{5 \times 2} = \frac{6}{10} \text{ (multiplying numerator and denominator by 2)}$$

(ii)

-15 is :

$$\frac{3 \times -5}{5 \times -5} = \frac{-15}{-25} \text{ (multiplying numerator and denominator by } -5 \text{)}$$

(iii)

21 is :

$$\frac{3 \times 7}{5 \times 7} = \frac{21}{35} \text{ (multiplying numerator and denominator by 7)}$$

(iv)

-27 is :

$$\frac{3 \times -9}{5 \times -9} = \frac{-27}{-45} \text{ (multiplying numerator and denominator by } -9 \text{)}$$

Rational Numbers Ex 4.2 Q3

Answer :

$\frac{5}{7}$ as a rational number with denominator:

(i) -14 is:

$$\frac{5 \times -2}{7 \times -2} = \frac{-10}{-14} \text{ (Multiplying numerator and denominator by } -2 \text{)}$$

(ii) 70 is:

$$\frac{5 \times 10}{7 \times 10} = \frac{50}{70} \text{ (Multiplying numerator and denominator by 10)}$$

(iii) -28 is:

$$\frac{5 \times -4}{7 \times -4} = \frac{-20}{-28} \text{ (Multiplying numerator and denominator by } -4 \text{)}$$

(iv) -84 is:

$$\frac{5 \times -12}{7 \times -12} = \frac{-60}{-84} \text{ (Multiplying numerator and denominator by } -12 \text{)}$$

Rational Numbers Ex 4.2 Q4

Answer :

3/4 as rational number with denominator:

(i)

20 is :

$$\frac{3 \times 5}{4 \times 5} = \frac{15}{20} \quad \left(\text{multiplying numerator and denominator by 5} \right)$$

(ii)

36 is :

$$\frac{3 \times 9}{4 \times 9} = \frac{27}{36} \quad \left(\text{multiplying numerator and denominator by 9} \right)$$

(iii)

44 is :

$$\frac{3 \times 11}{4 \times 11} = \frac{33}{44} \quad \left(\text{multiplying numerator and denominator by 11} \right)$$

(iv)

−80 is :

$$\frac{3 \times -20}{4 \times -20} = \frac{-60}{-80} \quad \left(\text{multiplying numerator and denominator by } -20 \right)$$

Rational Numbers Ex 4.2 Q5

Answer :

2/5 as a rational number with numerator:

(i)

−56 is :

$$\frac{2 \times 28}{5 \times -28} = \frac{-56}{-140} \quad \left(\text{multiplying numerator and denominator by } -28 \right)$$

(ii)

154 is :

$$\frac{2 \times 77}{5 \times 77} = \frac{154}{385} \quad \left(\text{multiplying numerator and denominator by 77} \right)$$

(iii)

−750 is :

$$\frac{2 \times -375}{5 \times -375} = \frac{-750}{-1875} \quad \left(\text{multiplying numerator and denominator by } -375 \right)$$

(iv)

500 is :

$$\frac{2 \times 250}{5 \times 250} = \frac{500}{1250} \quad \left(\text{multiplying numerator and denominator by 250} \right)$$

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