

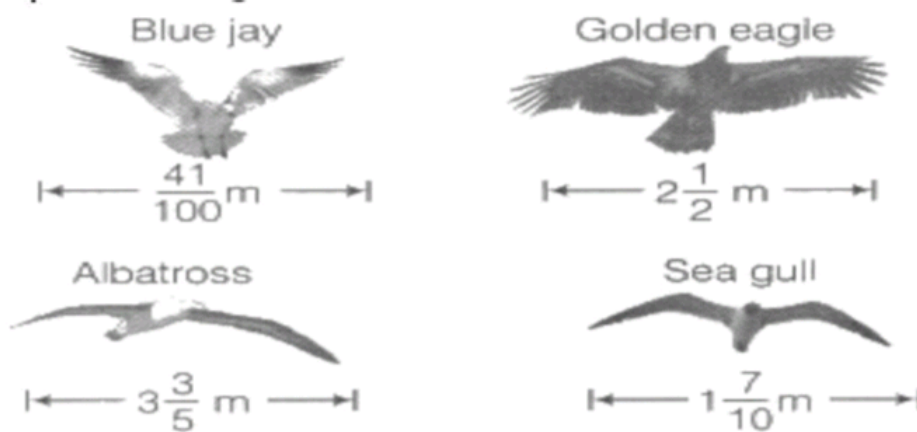
1. Choose the correct option:

- i) 'Closure property' in rational numbers is **NOT** satisfied with respect to the operation _____.
- (a) division (b) multiplication (c) subtraction (d) addition
- ii) Which property of the rational numbers illustrated by the following statement:
- $$\left(\frac{-3}{5}\right) \times \frac{2}{7} - \left(\frac{-5}{3}\right) \times \frac{2}{7} = \left\{\left(\frac{-3}{5}\right) - \left(\frac{-5}{3}\right)\right\} \times \frac{2}{7}$$
- (a) Closure (b) Commutative (c) Associative (d) Distributive
- iii) By what number should $\frac{-15}{729}$ be multiplied to get $\frac{5}{81}$?
- (a) 3 (b) -3 (c) $-\frac{1}{3}$ (d) $\frac{1}{3}$
- iv) The additive identity and multiplicative identity for rational numbers are respectively –
- (a) 0 , 1 (b) 1, -1 (c) 1, 0 (d) -1, 1
- v) The rational number that **does not** have a reciprocal is –
- (a) 1 (b) 0 (c) -1 (d) None

2. Answer the following questions :

- i) Simplify : $\left(\frac{-7}{15} \times \frac{45}{28}\right) - \left(\frac{3}{16} \div \frac{-9}{4}\right) + \left(\frac{121}{7} \times \frac{28}{99}\right)$
- ii) Find five rational numbers between $\frac{3}{4}$ and $\frac{4}{5}$. How many rational numbers are there between $\frac{3}{4}$ and $\frac{4}{5}$?

1. The diagram shows the wingspans of different species of birds. Use the diagram to answer the question given below :



- Write the name of the species according to their wingspan in descending order.
- How much longer is the wingspan of an Albatross than the wingspan of a Sea gull?
- How much longer is the wingspan of a Golden eagle than the wingspan of a Blue jay?

2. Read the information carefully and answer the questions given below :

Five friends had a competition to see how far could they hop on one foot. The table given shows the distance covered by each.

Name	Distance covered in km
Reena	$\frac{1}{32}$
Meena	$\frac{1}{25}$
Sima	$\frac{1}{40}$
Mita	$\frac{1}{16}$
Shampa	$\frac{1}{20}$



- How far did Mita hop than Meena?
- What is the total distance covered by Reena, Meena and Sima?
- Write the name of the friends in ascending order according to the distance covered by them.
- Who is the winner of the competition?
- What is the difference between the distances covered by the friends who stood first and fifth in the mentioned competition?