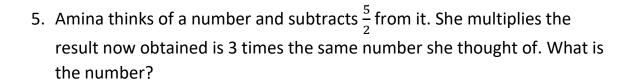1. When we interchange the digits, it is found that the resulting new number is less than the original number by 54.

2. The ages of Hari and Harry are in the ratio 5:7. Four years from now the ratio of their ages will be 3:4. Find their present ages.

3. The denominator of a fraction is 5 more than the numerator. Increasing the numerator and denominator by 3, we get the fraction $\frac{1}{2}$. Find the Fraction.

4. The denominator of a rational number is greater than its numerator by 8. If the numerator is increased by 17 and the denominator is decreased by 1, the number obtained is 3/2. Find the rational number.

5. Amina thinks of a number and subtracts $\frac{5}{2}$ from it. She multiplies the result now obtained is 3 times the same number she thought of. What is the number?

6. Half of a herd of deer are grazing in the field and three fourths of the remaining are playing nearby. The rest 9 are drinking water from the pond. Find the number of deer in the herd?

Answers:

1. 71
2. Hari = 20 yrs and Harry = 28yrs
3. $\dfrac{2}{7}$
4. $\dfrac{13}{21}$
5. 4
6. 72