

VIII - Mathematics Assignment No-05 - Linear Eqs in one Variable

Q1. The sum of two positive numbers is 30.

The greater number is  $\frac{3}{2}$  of the smaller.  
Find the larger number.

Q2. The sum of two positive numbers is 90 and their ratio is 7:8. Find the numbers.

Q3. The difference of two positive numbers is 56 and the quotient obtained on dividing one by the other is 5. Find the numbers.

Q4. The length of a rectangular field is greater than its width by 4 metres. If the perimeter of the field is 32 metres, find its area.

Q5. What number must be subtracted from the numerator and added to the denominator of  $\frac{13}{17}$  to give a rational number equal to  $\frac{1}{2}$ .

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- Q6. The sum of the digits of a two digit number is 9. The number formed by reversing the digits is greater than the original number by 9. Find the original number.
- Q7. The numerator of a rational number is less than the denominator by 3. If the numerator is multiplied by 3 and the denominator increased by 12, the new fraction becomes  $\frac{3}{4}$ . Find the original fraction.
- Q8. What number must be subtracted from the numerator and added to the denominator of  $\frac{13}{17}$  to give a rational number equal to  $\frac{1}{2}$ ?

ANSWERS:

(Q1) 18	(Q4) $60 \text{ m}^2$	(Q7) $\frac{5}{8}$
(Q2) 42, 48	(Q5) 3	(Q8) 3
(Q3) 14, 70	(Q6) 45	