

VIII - Mathematics Assignment - No. - 06 - Linear Eqs in one variable

- Q1. Anil is 32 years older than his son Arun who is 12 years old. After how many years will the age of Anil be twice that of his Son ?
- Q2. The ages of Ajay and Akhil are in the ratio 3:4. Five years ago, the ratio of their ages was 2:3. Find their present ages.
- Q3. The perimeter of a rectangle is 70 metres. If its width is three-fourths of its length. Find its area.
- Q4. One fifth of a number exceeds one-fifth of $(2n+1)$ by (-4). Find the number
- Q5. Two numbers are in the ratio 5:8. If the sum of the numbers is 182. Find the numbers.
- Q6. Find three consecutive odd numbers whose sum is 159.

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- Q7. The sum of the digits of a two digit number is 15. If the number formed by reversing the digits is less than the original number by 27. Find the original number.
- Q8. The digit in the tenth place of a two digit number is three times that in the unit place. If the digits are reversed, the new number will be 36 less than the original number. Find the number.
- Q9. The denominator of a rational number is greater than its numerator by 3. If 3 is subtracted from the numerator and 2 is added to its denominator, the new number becomes $\frac{1}{5}$. Find the fraction.
- Q10. A is now 9 years older than B. In 10 years, A will be twice as old as B was 10 years ago. Find their present ages.

<u>ANSWERS</u>	(Q3) 300 m ²	(Q6) 51, 53, 55	(Q9) $5\frac{1}{8}$
(Q1) 20 yrs	(Q4) 19	(Q7) 96	(Q10) 68 yrs
(Q2) 15 yrs 20 yrs.	(Q5) 70, 112	(Q8) 62	39 yrs.