

Answer on Question #73826 – Math – Algebra

Question

Husna is 4times as old as her brother Ashish at present age. After 10 years she will be twice the age of her brother. Find their present age.

Solution

If x is age of Ashish, then $4x$ is age of Husna.

After 10 years Ashish will be $x+10$ and Husna will be $4x+10$.

We construct the equation:

$$2(x + 10) = 4x + 10$$

$$2x + 20 = 4x + 10$$

$$2x = 10$$

$$x = 5$$

Answer: Ashish is 5 years old and Husna is 20 years old.