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so many fake sites. this is the first one which worked! Many thanks

Mathematics
(www.thwartacademy.com: Focus on free education)
(Chapter - 3) (Linear equations in two variables)
(Class - X)


Exercise 3.7

Question 1:
The ages of two friends Ani and Biju differ by 3 years. Ani's father Dharam is twice as old as Ani and Biju is twice as old as his sister Cathy. The ages of Cathy and Dharam differ by 30 years. Find the ages of Ani and Biju.

Answer 1:
The difference between the ages of Biju and Ani is 3 years. Either Biju is 3 years older than Ani or Ani is 3 years older than Biju. However, it is obvious that in both cases, Ani's father's age will be 30 years more than that of Cathy's age.
Let the age of Ani and Biju be x and y years respectively.
Therefore, age of Ani's father, Dharam = $2 \times x = 2x$ years
And age of Biju's sister Cathy = $y/2$ years
By using the information given in the question,

Case (i)
When Ani is older than Biju by 3 years, $x - y = 3$ (i)
 $2x - \frac{y}{2} = 30$
 $4x - y = 60$ (ii)
Subtracting (i) from (ii), we obtain
 $3x - 60 - 3 = 57$
 $x = \frac{57}{3} = 19$
Therefore, age of Ani = 19 years
And age of Biju = $19 - 3 = 16$ years

Case (ii)
When Biju is older than Ani, $y - x = 3$ (i)
 $2x - \frac{y}{2} = 30$
 $4x - y = 60$ (ii)
Adding (i) and (ii), we obtain
 $3x = 63$
 $x = 21$
Therefore, age of Ani = 21 years And
age of Biju = $21 + 3 = 24$ years


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Chapter 3 New Exercise Solutions