

12. (a) Peter chooses a number, subtracts 7 from it and then divides by 3
The result is 10
What was the number he chose?

Answer: (2)

- (b) Penny chooses a number n , multiplies it by 5 and then subtracts 9

- (i) Write an expression, in terms of n , to show Penny's result.

Answer: (2)

Sally chooses the same number n , adds 3 and then multiplies by 2

- (ii) Write an expression, in terms of n , to show Sally's result.

Answer: (2)

Penny and Sally discover that they have the same result.

- (iii) Write down an equation, in terms of n , to show this.

Answer: (1)

- (iv) Solve the equation to find which number they both chose.

Answer: $n =$ (2)

(Total marks: 100)