

**Dustin has only nickels and quarters in his piggy bank. He has 49 coins total for a combined value of \$8.85. How many of each does he have . Show your work**

**Answer 1**

Answer:

$x = \text{nickels}$ ,  $y = \text{quarters}$   
 $0,05x + 0,25y = 8,85$   
 $x + y = 49$   
 $x = 49 - y$   
 $0,05(49 - y) + 0,25y = 8,85$   
 $2,45 - 0,05y + 0,25y = 8,85$   
 $0,2y + 2,45 = 8,85$   
subtract  $2,45$   
 $0,2y = 6,4$

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