



How to solve algebra equations (when you know the values)

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$$x_{n+1} =$$

✕ Substitution

Our example question is:

$$x = 3$$

What is $x + 4$?

Now that we know $x = 3$, we can replace x with 3. The new equation is $3 + 4$.



✕ Solving the equation

Now all we have to do is $3 + 4$, which is simple 7.

SIMPLE!!

Onto our final example



✕ Substitution

Our second example question is:

$$x = 6$$

What is $x + 4$?

Again, now that we know $x = 6$, we can replace x with 6. The new equation is $6 + 4 =$.

✕ Solving the equation

Now all we have to do is $6 + 4$, which is simple 10.



Now try these:

1. $x = 10$
 $x + 7 =$

2. $x = 90$
 $x \div 10 =$

3. $x = 2$
 $2x + 1 =$

4. $x = 7$
 $x - 3 =$

5. $x = 12$
 $x \div 4 =$

6. $x = 6$
 $4x + x =$

Challenge:

1. Jack has x amount of sweets. Jill has 7 sweets and the total number of sweets between them is 19. How many sweets does Jack have?

2. $9x - 7 = 128$
Find the value of x .



Answers:

1. 17

2. 9

3. 5

4. 4

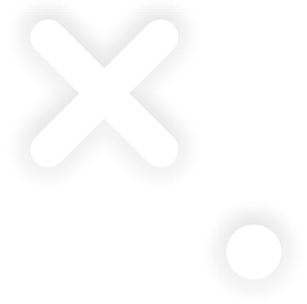
5. 3

6. 30

Challenge:

1. $19 - 7 = 12$

2. $128 + 7 = 135$
 $135 \div 9 = 15$





**Thank you! Don't forget
to try our worksheets.**