

Date: Jan 18 2007 2:56PM

Subject: Mic8POW: Equal Bank Accounts - posted December 25, 2006

**Answer:**

For Sam I got 4.85 and for Teri i got 212

**Explanation:**

Sam	Teri
500	200
- 15	+ 12
4.85	212

First I read the steps to figure out how much they withdraw and how much they deposit then i took away 15 from his 500 and thats how i got 4.85. For Teri I had to add because she deposit 12 and thats how I got my answer

**Mentor reply**

Date: Jan 21 2007 5:06PM

Subject: Re: Mic8POW: Equal Bank Accounts - posted 12/25/06

Hi,

You've got a good start on this problem. You have shown what happens after the first week. If you keep going, you will find out when they are closest to having the same amount of money.

There is a shortcut using equations. Sam starts with 500 and has \$15 less each week. Terri starts with \$200 and adds \$12 more each week. What equation could you write for the amount in Sam's account? And what equation would you write for Teri's?

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Date: Jan 19 2007 12:16AM

Subject: Mic8POW: Equal Bank Accounts - posted December 25, 2006

**Answer:**

i think 10 will be the closer u can get.

**Explanation:**

i think that because they say that sam has 500 and he withdrawls 15 dollars every friday and teri has 200 and deposit 12 every weak.

sam

first i mutiply

$15 * 4 = 60$  so i subtract 60 from 500 and i got 440

$15 * 6 = 90$  so i subtract 90 from 440 and i got 350

teri

$12 \times 4 = 48$  so i add 48 and 100 and i got 248

$12 \times 6 = 72$  so i added 72 and 248 and i got 320

after all that i add  $6 + 2 = 10$  and thats how i figure it out that 350 and 320 was closer to each other

**Mentor Reply:**

Date: Jan 21 2007 5:26PM

Subject: Re: Mic8POW: Equal Bank Accounts - posted 12/25/06

Hi,

I like the way you tried 4 weeks, and then tried 6 weeks. You could see that you needed more weeks to get closer and you used multiplication to skip a few weeks. Very nice.

I am not sure that 10 weeks is the closest. What happens at 11 and 12?

Try writing an expression for the amount of money in Sam's account that changes with the number of weeks. Write another one for the amount in Teri's account. We want to know when these equal each other.

This could save you even more work.

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Date: Jan 23 2007 3:01PM

Subject: Mic8POW: Equal Bank Accounts - posted December 25, 2006

**Answer:**

i think that if they take away the money that they use and the might in up with the same amount or they might be close to the same amount.

**Explanation:**

the way i got my answer is that i had subtract the amount like i did 200 take away 12 and I got 188. and than i did 500 subtract 15 and i got 485 and if they keep on taking out 12 and 15 every time they can end up with the same amount

Actual written comment:

this is a nice web site i like it very much and it help me in math class alot

i wonder if yall have fun like me

**Mentor Reply:**

Date: Jan 26 2007 4:47PM

Subject: Re: Mic8POW: Equal Bank Accounts - posted 12/25/06

Hi ,

Thank you for the kind words about the web site. Yes, we have a lot of fun here, doing math and in the rest of our lives too. Good to have you doing math with us.

You thought about an interesting version of this problem where both individuals take out money. I wonder if they will ever have the same amount. Let me know if you figure out when that would happen.

I should point out that in the original problem only Sam is taking money out. Teri is saving money and putting it into her bank account.

On what week will Teri be closest to having the same amount as Sam?