

Name:

Date:

Pow-Wow Planning

(AS01/AS03/SR02)

On-Demand (Check One)

Yes

No

Star and Brenda decided to deposit a certain amount of money in their savings accounts every Saturday. As soon as they have exactly the same amount of money, they will each withdraw all their money and choose the Pow-Wow event that has a cost closest to, without going over, the money they have saved.

Star had \$202.00 in his account and Brenda had \$293.00 in her account. Star deposits \$20.00 each Saturday. Brenda deposits \$16.50 each Saturday. Pow-Wow destination costs are:

Destination	Pow-Wow Cost (per person)
Lummi Nation Pow-Wow	\$295
Crow Fair	\$426
Rosebud Pow-Wow	\$588
Arpahoe (WindRiver) Pow-Wow	\$702
Haskell Indian Nations Pow-Wow	\$734
Mississippi Band of Choctaw Pow-Wow	\$844
Seneca Nation Pow-Wow	\$978
Gathering of Nations	\$1,045

- Write an equation for each person that will allow you to determine the amount of money saved in relation to time. Define the variables.

Equation for Star: _____

Define the variables:

Equation for Brenda: _____

Define the variables:

2. Complete this table of values for each person.

Week	Star	Brenda
Starting deposit	\$202.00	\$293.00
Week 1 Saturday	\$222.00	
Week 2 Saturday		
Week 3 Saturday		
Week 4 Saturday		

3. In which week will Star have \$342 in his bank account? Show your work using words, numbers, and/or diagrams.

4. In which week will Brenda have \$441.50 in her bank account? Show your work using words, numbers, and/or diagrams.

5. In which week will Star and Brenda have the same amount of money in their accounts? Show how you would solve a system of equations to confirm which week Star and Brenda have the same amount of money in their accounts.

6. To which Pow-Wow will they be heading? Support your answer using information from your equations and/or table.

7. Trevor, Star and Brenda's friend, wants to go with them to the Pow-Wow. Trevor has \$66.50 in his account on the Saturday of Week 7. What is the minimum amount Trevor will have to deposit each of the following Saturdays to join Star and Brenda on the trip? Show your work using words, numbers, and/or diagrams.
