

MathFLIX CHALLENGE

Problem Solving Strategy: Working Backwards

Kevin went to a fair with his friends Matt and Colleen. Read each friend's story to determine how much money each of them took to the fair.

Kevin spent \$2 on a ferris wheel ride. He bought Colleen popcorn for \$1 and played ball toss 4 times trying to win a prize. Each round of ball toss cost \$1. He had \$8 left when he got home.

Matt spent \$2 on a funnel cake and \$1 popcorn. He challenged Kevin to 5 games of darts that each cost \$2. He had \$2 left when he got home.

Colleen joined Matt for a funnel cake of her own and bought a bottle of water for \$1. She rode the ferris wheel and had her face painted which cost her \$4. She had \$6 left when she got home.

Friend	How much \$ to the fair	\$ spent Event 1	\$ spent Event 2	\$ spent Event 3	\$ spent Event 4	\$ left at end of fair
Kevin						\$8
Matt						\$2
Colleen						\$6

These students are working on a science fair project testing the growth rate of different plants. Study the information provided below and complete the tables.

Student	Each placed one half of their plants inside.	Each put some in the back yard.	Each put some in the front yard.	How many did they place outside?	How many did they place inside?	How many plants did each student have?
Wanda	1/2	5	3			
James	1/2	6	2			
Tiffany	1/2	7	12			

Student	Each placed a fraction of their plants inside.	Each put some in the back yard.	Each put some in the front yard.	How many did they place outside?	How many did they place inside?	How many plants did each student have?
Ryan	1/3	5	3			
Juan	1/4	8	4			
Keya	1/5	10	10			

A bus left Eastside School at 4:00 pm. At the first stop, 10 students got off. The bus then passed Valley Mall and stopped at Mill Road, where $\frac{1}{2}$ of the remaining students got off. The last 8 students rode all the way to Silver Creek.

How many stops did the bus make ? _____

How many students got off at Silver Creek, the last stop? _____

How many students were on the bus when it passed Valley Mall? _____

How many students got off at Mill Road, the second stop? _____

How many students got off at the first stop? _____

How many students were on the bus when it left Eastside School? _____