MathFLIX CHALLENGE

Mathematical Modeling: Proportions at the Amusement Park

Read to Succeed is an exciting program that encourages students to read for fun. Students who complete six hours of recreational reading earn a free ticket to *Six Flags Great America (GA)*. **Anna, Gabrielle, Ari, Lou, Jamel, Amy, Jack, Lila, Emma, Sam, Pat Terri, Ian and Al** earned free tickets to *Great America.*

Study the example below to understand the pattern then complete the table.

Problem	Model	**?** # of Girls	**?** # of Boys	Proportion (# of Girls)	Proportion (# of Boys)
Anna saw 20 children riding on *Triple Play*. Gabrielle noted 1/5 of the riders were girls.	4 4 4 4 4	4	16	$\dfrac{1}{5} = \dfrac{x}{20}$	$\dfrac{4}{5} = \dfrac{x}{20}$
Ari noticed 20 students in line for *American Eagle.* **Lou** noticed that 2/5 of them were girls.	4 4 4 4 4			— = —	— = —
Jamel told **Ari** that 3/5 of the riders on *Sky Tower* were males. **Ari** agreed. A sign posted near the ride said the capacity was 60 riders and it was full.				— = —	— = —
Lou counted 32 seats on *Batman*. As he and **Jamel** took the last two seats, he noticed that 5/8 of the riders were girls.					
There are 49 sixth graders at Benjamin Banneker School and 4/7 are boys.					
There are 42 seventh graders at Carl Gauss School and 5/6 are boys.					
There are 48 eighth graders at Sophie Germaine School and 3/4 are girls.					