

Info Gap: Racing and Play Tickets

**Problem Card 1**

Priya and Lin are having a race. The equation  $y = 9.5x$  represents one person's progress.

If one of them had a head start, how long is it until the other person catches up?

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**Data Card 1**

- The equation  $y = 9.5x$  represents Lin's progress, where  $y$  is her distance, in feet, from the starting line, and  $x$  is the time, in seconds, that she has been running.
- Priya had the head start. She was 18 feet in front of the starting line when Lin started.
- Priya runs at a constant 8 feet per second.

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**Problem Card 2**

A school sells adult tickets and student tickets for the drama play. One equation that represents the situation is  $x + y = 115$ .

How many of each type of ticket did they sell?

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**Data Card 2**

- The equation  $x + y = 115$  represents how many tickets were sold, where  $x$  is student tickets and  $y$  is adult tickets.  
This equation is equivalent to  $x = 115 - y$ .
- Adult tickets cost \$8 each.
- Student tickets cost \$3 each.
- The school made \$720 total from ticket sales.

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