Info Gap: Custom Mugs

Problem Card 1

A science club would like to get some custom mugs with the club's logo on them. The number of mugs the club can buy depends on the amount of money available for the mugs and the cost for each mug. One online company offers a great discount for each mug ordered.

1. How many mugs can the club afford?
2. Write an equation that gives the number of mugs that the club can buy, n, as a function of the regular price, p.

Info Gap: Custom Mugs

Data Card 1

- The regular price for one mug is $10.80.
- The discount is $4.40 off for each mug.
- The club has a budget of $120 for the mugs.
- There are no other fees or charges.

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Problem Card 2

A teacher suggested another option for ordering the mugs at a discounted price from a local printing company. The club would be able to get more mugs with the same budget by ordering from this local business.

1. What is the regular price per mug at this company?
2. Write an equation that gives the regular price of a mug, p, if the club can afford n mugs with the same budget.

Info Gap: Custom Mugs

Data Card 2

- The discount is $4.40 off for each mug.
- The club is able to order 24 mugs if they choose this company.
- The club has a budget of $120 for the mugs.
- There is a set-up fee for each order, but the company decides to waive the fee for the science club.