5.NF Cornbread Fundraiser

Task

The 5th graders want to raise money for their overnight camping trip by selling cornbread during the school Chili Cook-Off contest. All the pans of cornbread are square. A pan of cornbread costs $\$12$. The customers can buy any fractional part of a pan of cornbread and pay that fraction of $\$12$. For example, $\frac{1}{2}$ of a full pan costs $\frac{1}{2}$ of $\$12$.

a. Mrs. Farmer buys cornbread from a pan that is $\frac{1}{4}$ full. She buys $\frac{1}{3}$ of the remaining cornbread in the pan.

- What fraction of the whole pan of cornbread does she buy? Use objects and/or a diagram to show how much of the pan of cornbread she buys.
- What does she pay for the cornbread she bought? Use objects and/or a diagram to show how much pays.

b. The next customer is the school principal. He buys cornbread from a different pan that is $\frac{1}{2}$ full. He buys $\frac{5}{6}$ of the remaining cornbread in the pan.

- What fraction of the whole pan of cornbread does he buy? Use a diagram to show how much of the pan of cornbread he buys.
- What does he pay for the cornbread he bought? Use a diagram to show how much he will pay for his part of the pan.

c. What would be the cost of the cornbread the principal bought if the price of the entire pan changed to:

- $\$24$
- $\$6$
- $\$18$

Use a diagram to explain each answer.

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