

## Brownie Sale Grade 5 Number and Operations - Fractions

**Topic:** Apply and extend previous understandings of multiplication and division.

### Content Standards

- » *Number and Operations - Fractions*
  - » Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.

### Practice Standards

- » *Model with mathematics*  
Students create representations and number sentences associated with the problem.
- » *Use appropriate tools strategically*  
Students use tools and/or hands-on manipulatives to show or create representations associated with the problem.
- » *Make sense of problems and persevere in solving them*  
Students persevere to understand and solve the problem.

### **Brownie Sale (#1)**

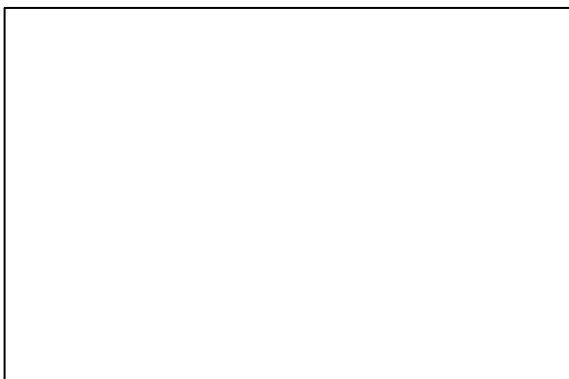
Marie brings a full pan of brownies to sell at a field hockey game.

At halftime Maria still has brownies in  $\frac{1}{2}$  of the pan.

José buys  $\frac{1}{2}$  of what is in the pan at halftime.

How much of the original pan of brownies did José buy?

The rectangle represents the pan of brownies. Shade the amount of brownies José buys.



My drawing represents the amount José buys because...

José buys \_\_\_\_\_ of the original pan of brownies.

### **Brownie Sale (#1)**

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At halftime Maria still has brownies in  $\frac{1}{2}$  of the pan.

José buys  $\frac{1}{2}$  of what is in the pan at halftime.

How much of the original pan of brownies did José buy?

The rectangle represents the pan of brownies. Draw the amount of brownies José buys.



My drawing represents the amount José buys because...

José buys \_\_\_\_\_ of the original pan of brownies.

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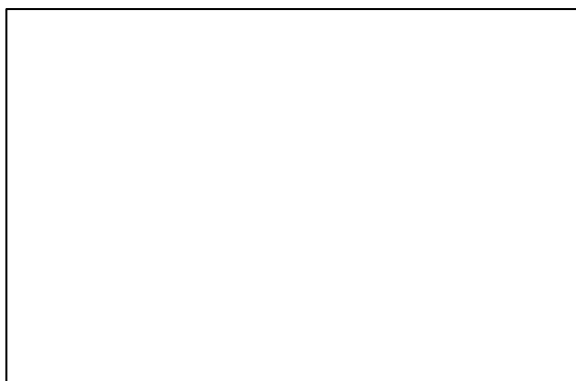
### **Brownie Sale (#2)**

Marie has  $\frac{1}{4}$  of the pan of brownies at the end of the game.

Sam asks to buy no more than  $\frac{1}{3}$  of the amount in the pan.

What amount of the original pan should Maria sell to Sam?

The rectangle represents the pan of brownies. Shade the amount of brownies Maria sells to Sam.



My drawing represents the amount Maria sells to Sam because...

Maria sells \_\_\_\_\_ of the original pan of brownies to Sam.

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