

\_\_\_\_  $B$  + \_\_\_\_  $F$

$$2B + 2F$$

\_\_\_ *B* + \_\_\_ *F*

$$2B + 4F$$

$$4B + 2F$$

$$3B + 6F$$

$$(3B + F) + (3B + F)$$

$$(B + F) + (B + F)$$

$$(B + F) + (B + F) + (B + F)$$

$$(B + 2F) + (B + 2F)$$

$$(2B + F) + (2B + F)$$

$$(B + 2F) + (B + 2F) + (B + 2F)$$

$$2(3B + F)$$

$$2(B + F)$$

$$3(B + F)$$

$$2(B + 2F)$$

$$2(2B + F)$$

$$\frac{1}{2}(B + 2F)$$

Card Set 1

Card Set 2

### Card Set 3

# activity sheet 1

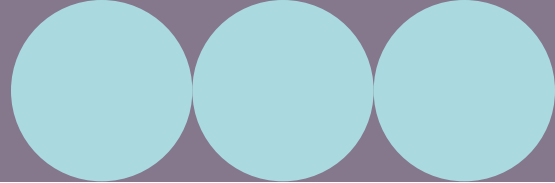
Name \_\_\_\_\_

## ORDERING BURGERS AND FRIES

- Using card set 1, place each card in column 1 so that it matches the appropriate picture and description in the other two columns.
- Fill in any blanks on the cards and in the written description. Keep your cards in place.

Pictorial Display	A Family Orders	Card Set 1
	6 burgers and 2 fries	
	2 burgers and 2 fries	
	3 burgers and 3 fries	
	___ burgers and ___ fries	
	4 burgers and 2 fries	
	3 burgers and 6 fries	

# activity sheet 2

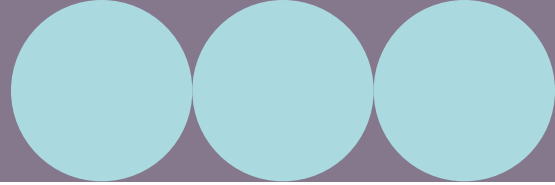


Name \_\_\_\_\_

## SHARING MEALS

1. Circle the items in the picture that each family member would receive if each person received the same meal and if there is more than one person in the family.
2. Fill in the missing number of family members in the column next to the pictures.
3. Using card set 2, place each card in column 2 so that it matches the appropriate picture and number of family members in the columns. Keep your cards in place.
4. Using the expression in the column labeled card set 2, explain why it represents the picture.
5. Using card set 3, place each card in column 3 so that it matches the appropriate expression in column 2.
6. Fill in any blanks on the cards. Keep your cards in place.
7. Explain why the expressions in columns 2 and 3 are equivalent.
8. Write as many equivalent expressions as you can for the number of burger and fries ordered by a family of 5, in which each family member ordered 2 burgers and 3 fries.

# activity sheet 2 (continued)




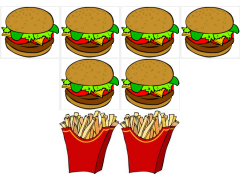

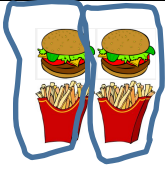

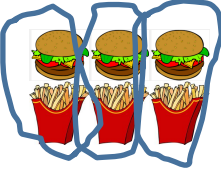

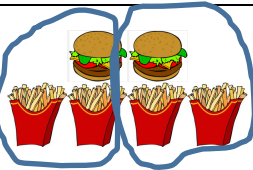
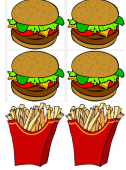
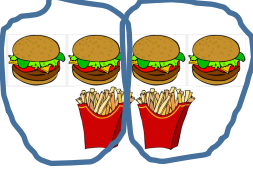
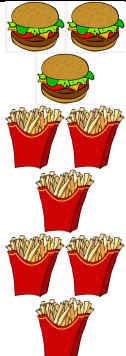
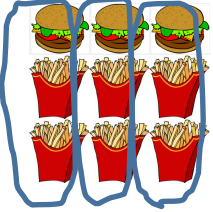
Name \_\_\_\_\_

Pictorial Display	No. of Family Members	Card Set 2	Card Set 3
	2		
	3		

# Mathematical Explorations

## Burgers and Fries: Exploring Equivalent Expressions

Frieda Parker and Vida Treviño

Solutions to Activity Sheet 1			Solutions to Activity Sheet 2			
	A family orders 6 burgers and 2 fries.	$6B + 2F$		No. of family members 2	$(3B + F) + (3B + F)$	$2(3B + F)$
	A family orders 2 burgers and 2 fries.	$2B + 2F$		No. of family members 2	$(B + F) + (B + F)$	$2(B + F)$
	A family orders 3 burgers and 3 fries.	$3B + 3F$		No. of family members 3	$(B + F) + (B + F) + (B + F)$	$3(B + F)$
	A family orders 2 burgers and 4 fries.	$2B + 4F$		No. of family members 2	$(B + 2F) + (B + 2F)$	$2(B + 2F)$
	A family orders 4 burgers and 2 fries.	$4B + 2F$		No. of family members 2	$(2B + F) + (2B + F)$	$2(2B + F)$
	A family orders 3 burgers and 6 fries.	$3B + 6F$		No. of family members 3	$(B + 2F) + (B + 2F) + (B + 2F)$	$3(B + 2F)$