

Home Connection 13 ★ Activity



NOTE TO FAMILIES

At school we played a multiplication game called Loops & Groups, and we'd like to teach you how to play! Your child can show you how to use a pencil and paperclip as a spinner to play this game. You may remember that in the equation $4 \times 2 = 8$, 4 and 2 are called the *factors* and 8 is called the *product*. Please have your child return the record sheet and worksheet to school.

You'll need the spinner on the back of this page, record sheet, two pencils, and a paperclip to play Loops & Groups.

Instructions for Loops & Groups



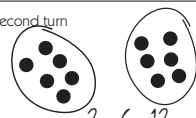
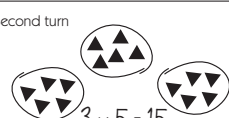
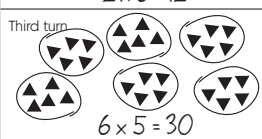
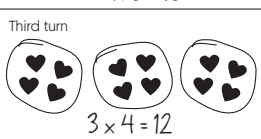
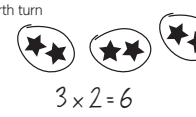

1 The first player spins the Loops Spinner and draws that many loops. Then the player spins the Shapes Spinner to see how many and what kind of shape to draw in each loop.

2 The player then records the multiplication fact that is represented by the picture. Talk about your strategies for finding the product (the total number of shapes in the loops).



3 Now the second player spins and records loops and shapes. He or she also writes the multiplication fact on the record sheet.

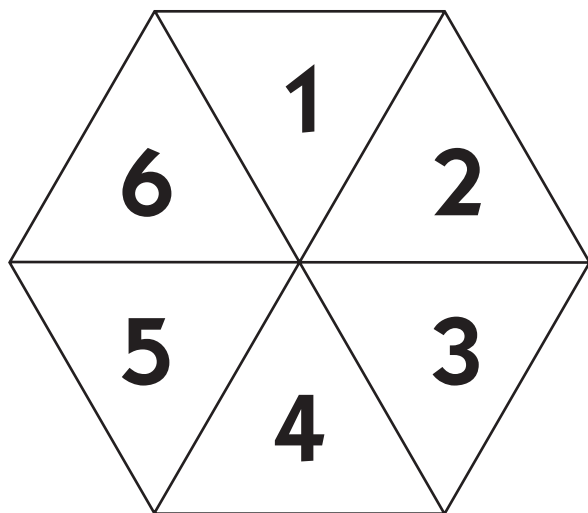
4 Continue taking turns until each player has had 4 turns. At the end, both players find the sum of their 4 products. Talk to each other about how you added the 4 numbers.

Home Connections	
NAME <u>Yoshiko</u>	DATE _____
Home Connection 13 Activity (cont.)	
Loops & Groups Record Sheet	
Partner 1 <u>Yoshiko</u>	Partner 2 <u>Mom</u>
First turn  $5 \times 2 = 10$	First turn  $1 \times 4 = 4$
Second turn  $2 \times 6 = 12$	Second turn  $3 \times 5 = 15$
Third turn  $6 \times 5 = 30$	Third turn  $3 \times 4 = 12$
Fourth turn  $3 \times 2 = 6$	Fourth turn  $5 \times 1 = 5$
Sum $10 + 12 + 30 + 6$ $52 + 6 = 58$	Sum $4 + 15 + 12 + 5$ $16 + 20 = 36$

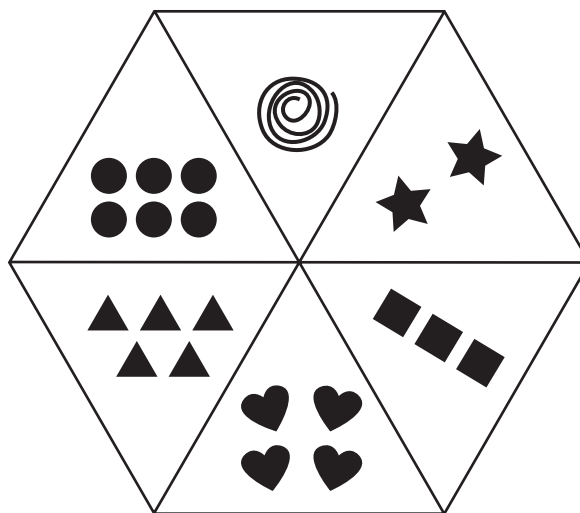
5 The player with the highest total wins.

Home Connection 13 Activity (cont.)

Loops & Groups Spinners



Loops Spinner



Shapes Spinner

NAME _____

DATE _____

Home Connection 13 Activity (cont.)**Loops & Groups Record Sheet****Partner 1** _____**Partner 2** _____

First turn	First turn
Second turn	Second turn
Third turn	Third turn
Fourth turn	Fourth turn
Sum	Sum

