

NAME \_\_\_\_\_

DATE \_\_\_\_\_



## Multiplying by Multiples of Ten page 1 of 2

**1** Solve each problem below:

**a**  $2 \times 16 = \underline{\hspace{2cm}}$

**b**  $20 \times 16 = \underline{\hspace{2cm}}$

**c**  $4 \times 21 = \underline{\hspace{2cm}}$

**d**  $40 \times 21 = \underline{\hspace{2cm}}$

**e**  $8 \times 15 = \underline{\hspace{2cm}}$

**f**  $80 \times 15 = \underline{\hspace{2cm}}$

**2** Fill in the blanks

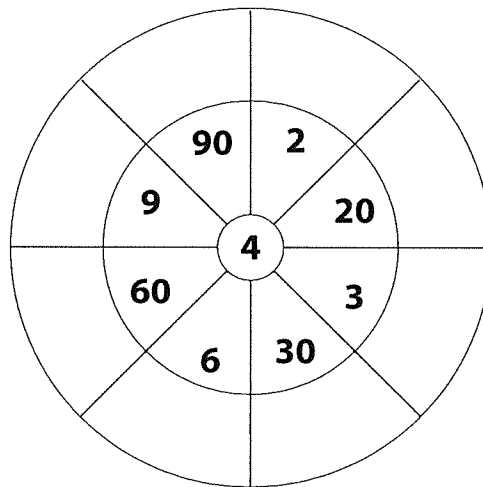
**a**  $6 \times 20 = 6 \times 2 \times \underline{\hspace{2cm}}$

**b**  $30 \times 8 = 3 \times \underline{\hspace{2cm}} \times 8$

**c**  $5 \times 100 = \underline{\hspace{2cm}} \times 10 \times 10$

**d**  $40 \times 7 = \underline{\hspace{2cm}} \times 10 \times 7$

**4** Fill in the Multiple Wheel below.



*(continued on next page)*

**Multiplying by Multiples of Ten** page 2 of 2

- 5** Kyra is putting up streamers for a party. She uses 75 feet of streamers to decorate one wall. Two more walls also each use 75 feet of streamers. Kyra cuts 75 feet of streamers for the last wall, but this wall has a large poster on it, and she only needs to use 68 feet of streamers. How many feet of streamers did Kyra use in all?
- 6** **CHALLENGE** Luis and Kyra are getting ready for the party. Luis makes 6 sheets of cookies. Each sheet has 13 cookies on it. He also makes 4 trays of brownies. Each tray has 16 brownies on it. How many cookies and brownies did Luis make in all?

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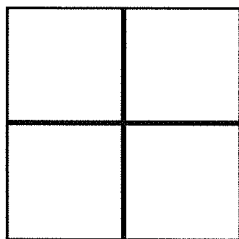


## Design a Floor Pattern page 1 of 3

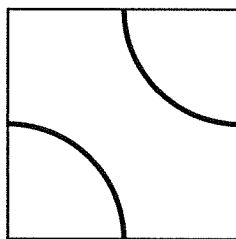
### Note to Families

This Home Connection combines math and design. Students use their creativity to design a pattern and then practice computation to determine how much it would cost to make that pattern in tiles.

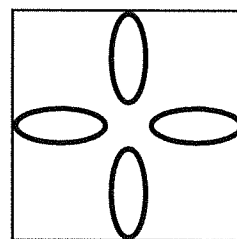
- 1 Choose one of the two Floor Plans: Floor Plan 1 below or Floor Plan 2 on the back of this page. (If you really enjoy this project, you can do both.)
- 2 Draw one of the following 3 tile designs in each square on your floor plan. Do not use the same design for every square.



Tile A



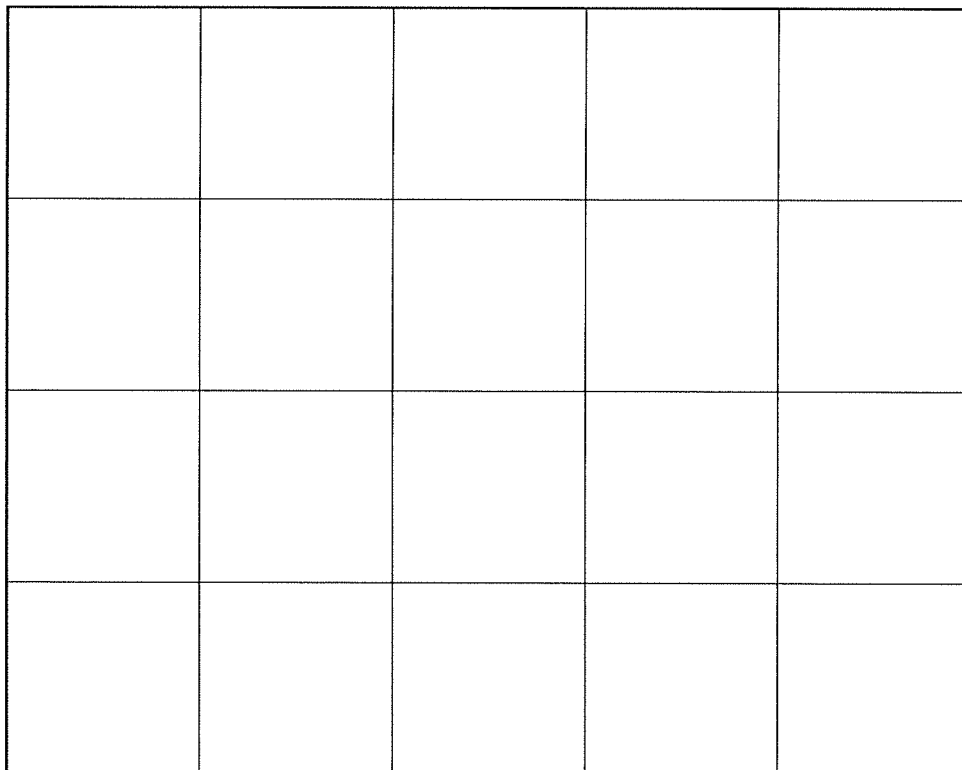
Tile B



Tile C

- 3 Answer questions 1–6 on the worksheet.

### Floor Plan 1



(continued on next page)



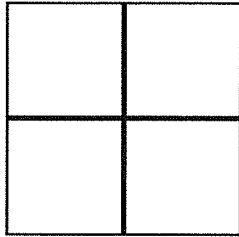
NAME \_\_\_\_\_

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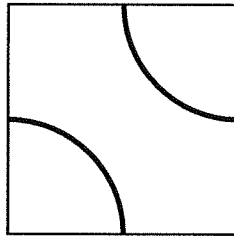
## Design a Floor Pattern page 3 of 3

### Calculating the Costs of Your Floor Pattern(s)

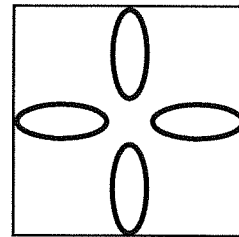
Here is the cost of each tile.



Tile A: 25 cents



Tile B: 50 cents



Tile C: 1 dollar

Use your floor plan(s) and the information above to answer the questions below (Remember, you only have to do one of the floor plans, not both.)

Question	Floor Plan 1	Floor Plan 2
<b>1</b> How many tiles did you need for the floor plan you chose?		
<b>2</b> How many of each tile did you use in your design of the floor plan?	<b>a</b>	<b>a</b>
	<b>b</b>	<b>b</b>
	<b>c</b>	<b>c</b>
<b>3</b> How much money did all the A tiles cost?		
<b>4</b> How much money did all the B tiles cost?		
<b>5</b> How much money did all the C tiles cost?		
<b>6</b> How much money did the entire floor pattern cost?		