

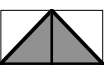


(6) The cells  and  fall in columns \_\_\_\_, 2, 4, 6, \_\_\_\_, \_\_\_\_, and \_\_\_\_\_. (Fill in the blanks with the numbers of the columns immediately preceding and following columns 2, 4, and 6.)

(7) The cells  fall in rows \_\_\_\_, 2, \_\_\_\_, \_\_\_\_, and \_\_\_\_\_. (Answer as in (6).)

(8) Describe your answer to (6) using the terminology of modular or clock arithmetic, and also using the word "multiples," assuming the pattern continues throughout the plane:

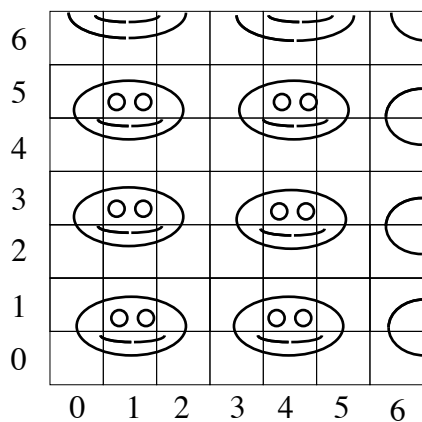
Describe your answer to (7) using the terminology of modular or clock arithmetic, and also using the word "multiples," assuming the pattern continues throughout the plane:

(9) Fill in with the pattern of problems 6-8:

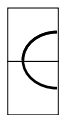
83				
82				
81				
80				
	100	101	102	103

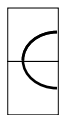
(10) create your own pattern:

4					
3					
2					
1					
0					
	0	1	2	3	4



75					
74					
73					
	101	102	103	104	105



(11) The left hand side of the face  falls in columns 0, 3, 6, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. (Fill in with the next columns after 0, 3, and 6.)

(12) The eyes fall in rows 1, 3, 5, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. (Fill in with the rows following 1, 3, and 5.)

(13) What kind of numbers are the eye-rows? (Use the terminology of modular arithmetic.)

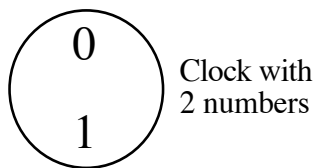
(14) What kind of numbers are the eye-columns? Use the terminology of modular arithmetic to describe them; assume the pattern continues throughout the plane.

(15) Fill in with either 0 or 1:

$$73 \equiv \underline{\quad} \pmod{2}$$

$$74 \equiv \underline{\quad} \pmod{2}$$

$$75 \equiv \underline{\quad} \pmod{2}$$



Fill in with either 0, 1, or 2:

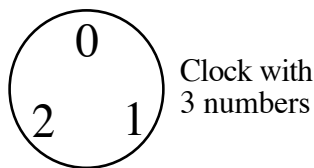
$$101 \equiv \underline{\quad} \pmod{3}$$

$$102 \equiv \underline{\quad} \pmod{3}$$

$$103 \equiv \underline{\quad} \pmod{3}$$

$$104 \equiv \underline{\quad} \pmod{3}$$

$$105 \equiv \underline{\quad} \pmod{3}$$



(16) Fill in the chart on the right at the top of the page with the pattern of faces.