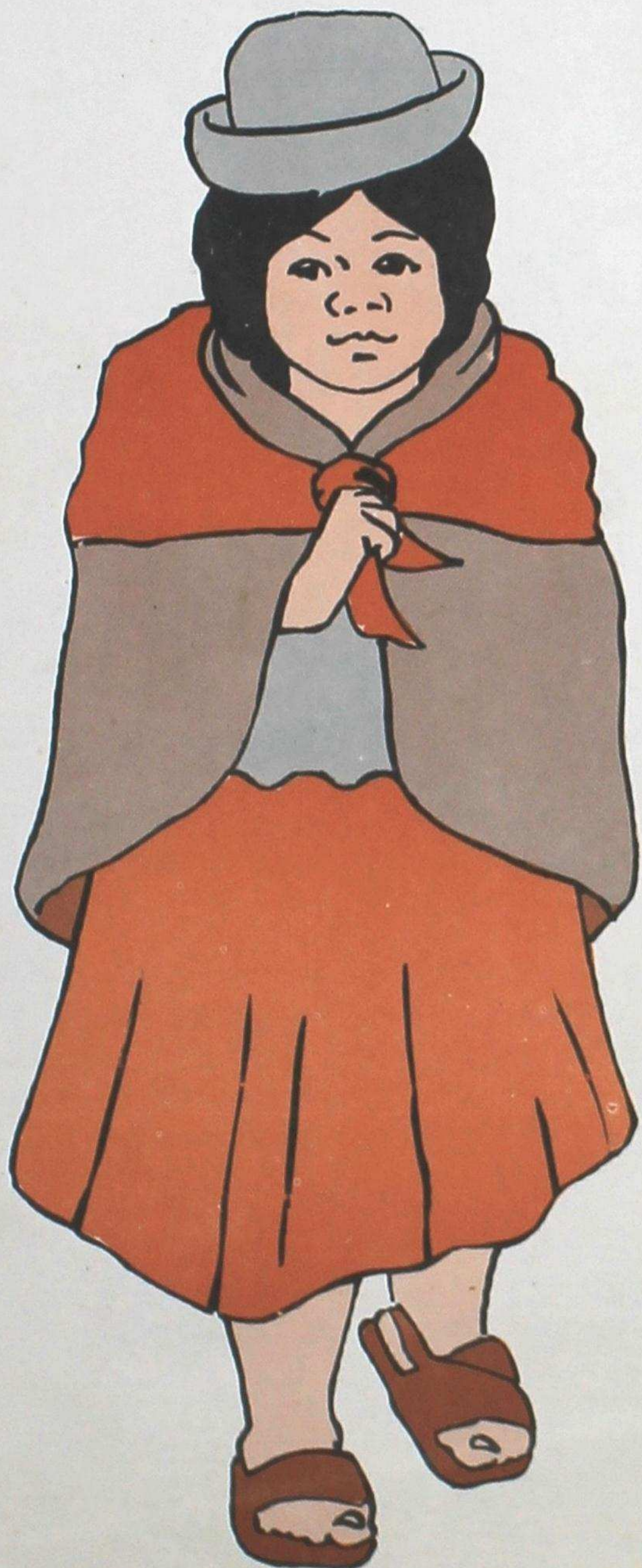


MINISTERIO DE EDUCACION Y CULTURA  
DIRECCION GENERAL DE EDUCACION RURAL  
PROYECTO DE EDUCACION INTERCULTURAL BILINGÜE

# maya



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MINISTERIO DE EDUCACION Y CULTURA  
DIRECCION GENERAL DE EDUCACION RURAL  
PROYECTO DE EDUCACION INTERCULTURAL BILINGÜE

COMISION DE ELABORACION

Prof. Renato Martínez Mollo  
Prof. Juan Carvajal Carvajal  
Prof. Dionicio Siñani Atto  
Prof. Pedro Apala Flores  
Prof. Celestino Choque Villca

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Portada: Jaime Sevillano

Cooperación Financiera: Fondo de las Naciones Unidas para la Infancia - UNICEF

Este cuaderno de matemáticas, ha sido elaborado tomando algunos contenidos y metodología del cuaderno "JAKHUÑANI", editado por el Ministerio de Educación del Perú, en cumplimiento del Convenio Binacional suscrito en Lima el 12 de marzo de 1990, por los Ministros del ramo de Bolivia y el Perú.

Autores de "JAKHUÑANI"

Diseño y Elaboración: Martha Villavicencio Ubillús y otros



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DIRECCION GENERAL DE EDUCACION RURAL  
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PRESENTACION

# maya

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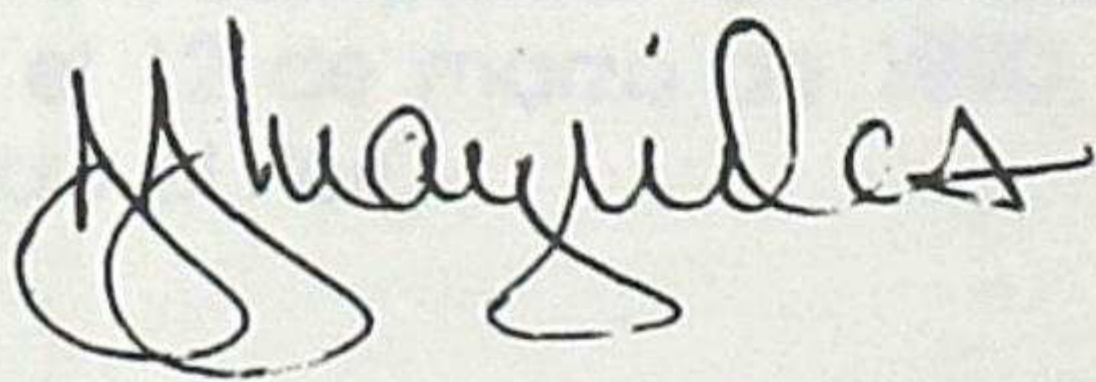
## PRESENTACION

El análisis y la reflexión de las características pluriculturales y multilingües de Bolivia por parte de instituciones estatales, organizaciones no gubernamentales, partidos políticos, sindicatos y organismos indigenistas, han permitido la formulación de distintas propuestas de educación intercultural bilingüe. Asimismo, se han desarrollado parcialmente programas de educación bilingüe, cuyos logros y limitaciones es conveniente capitalizar para la implementación de la actual experiencia.

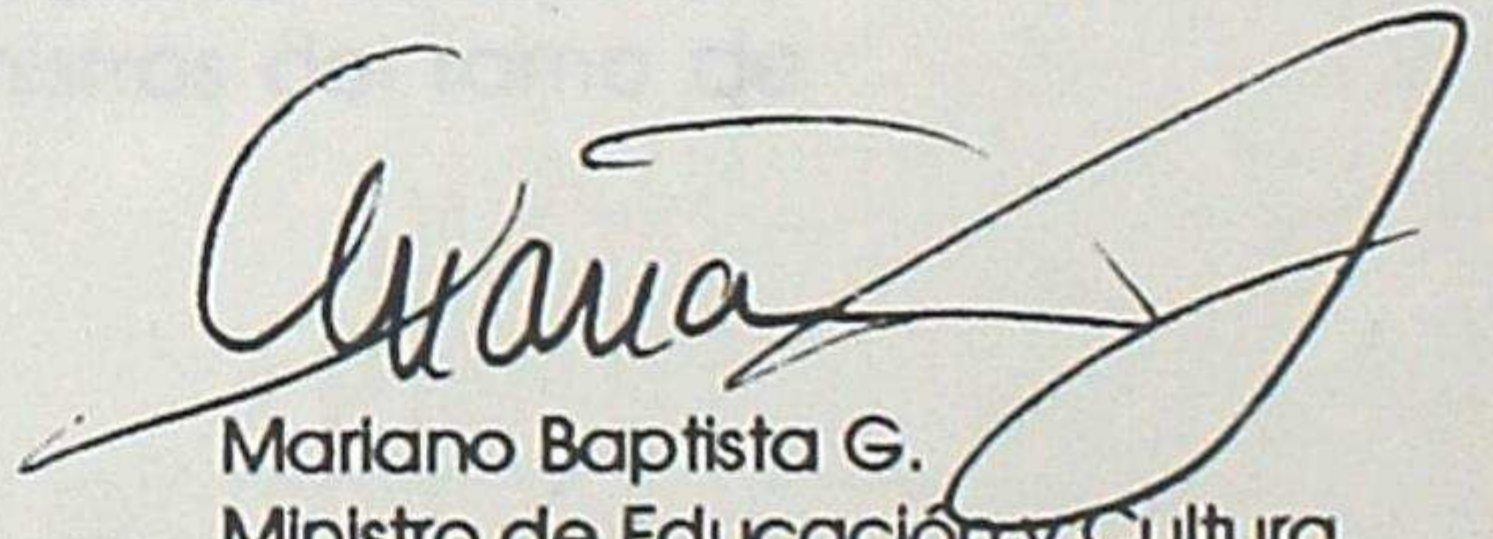
El Ministerio de Educación y Cultura con el apoyo técnico y financiero del Fondo de las Naciones Unidas para la Infancia - UNICEF - y el concurso de otras agencias de cooperación internacional y de organizaciones no gubernamentales, ha puesto en marcha el Proyecto de Educación Intercultural Bilingüe para los niños aymaras, quechuas y guaraníes, respetando el derecho de cada estudiante a recibir educación en su lengua materna, y de acceder, paulatinamente, al castellano con una metodología de segunda lengua, con la convicción de que si la educación es para todos, en Bolivia ésta debe ser bilingüe e intercultural.

Los textos de lecto-escritura en quechua, aymara y guaraní y las guías de aprendizaje oral del castellano que integran esta publicación, serán utilizados con carácter experimental en los primeros grados de los núcleos escolares seleccionados.

El Ministerio de Educación y Cultura y UNICEF presentan estos materiales educativos, seguros de que constituyen un valioso aporte para la educación de los niños, el trabajo de los docentes y la comunidad educativa, para lograr una educación acorde a las características pluriculturales de Bolivia.

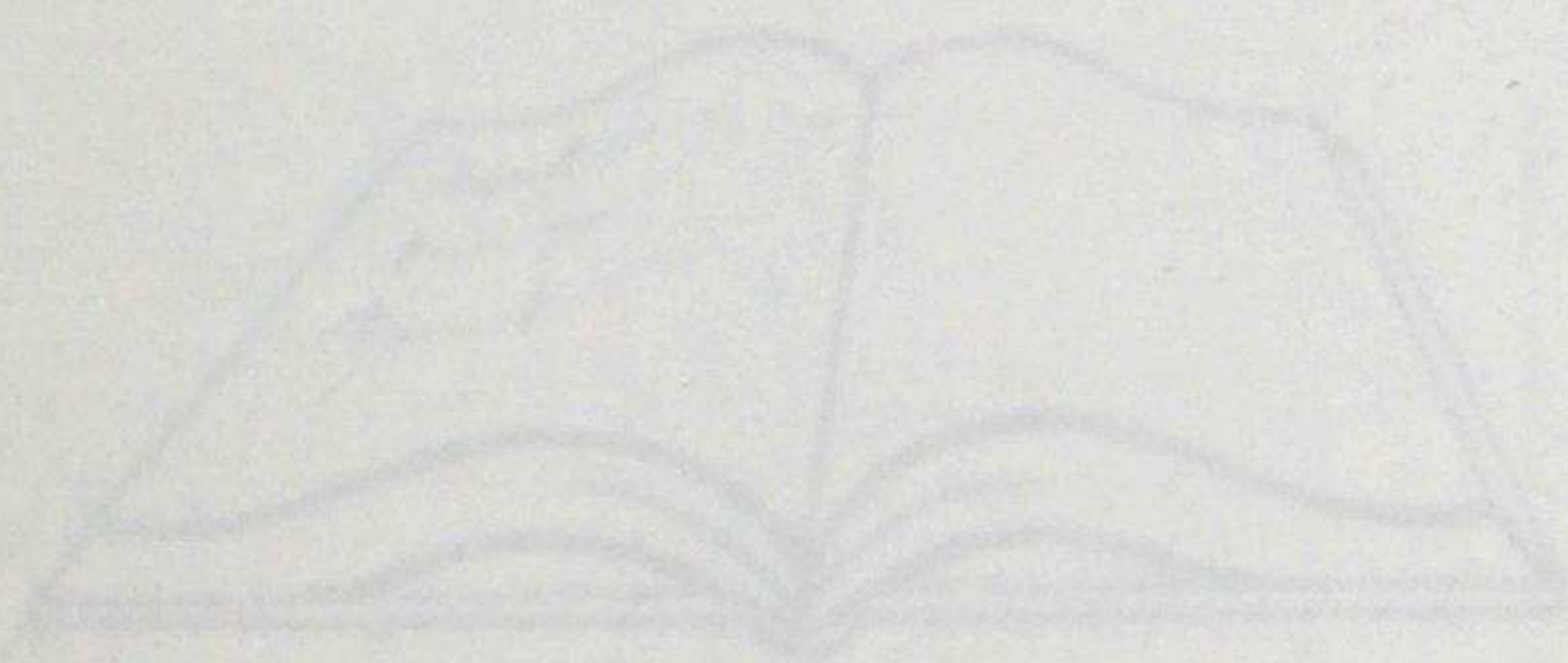


James Mayrides  
Representante de UNICEF en Bolivia

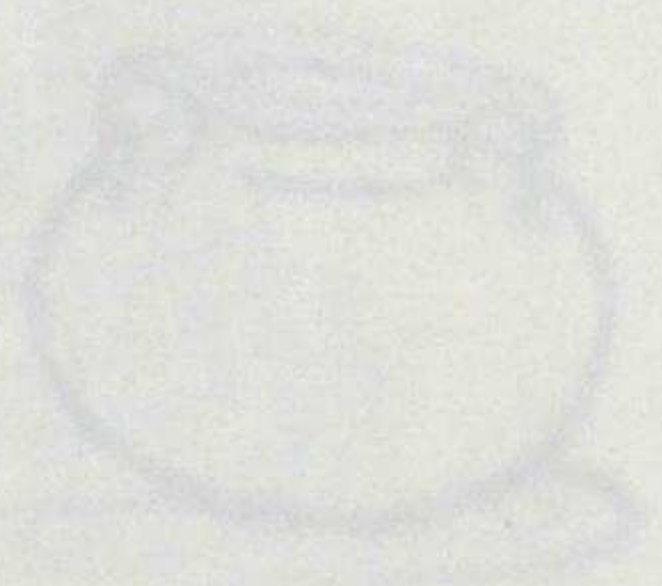
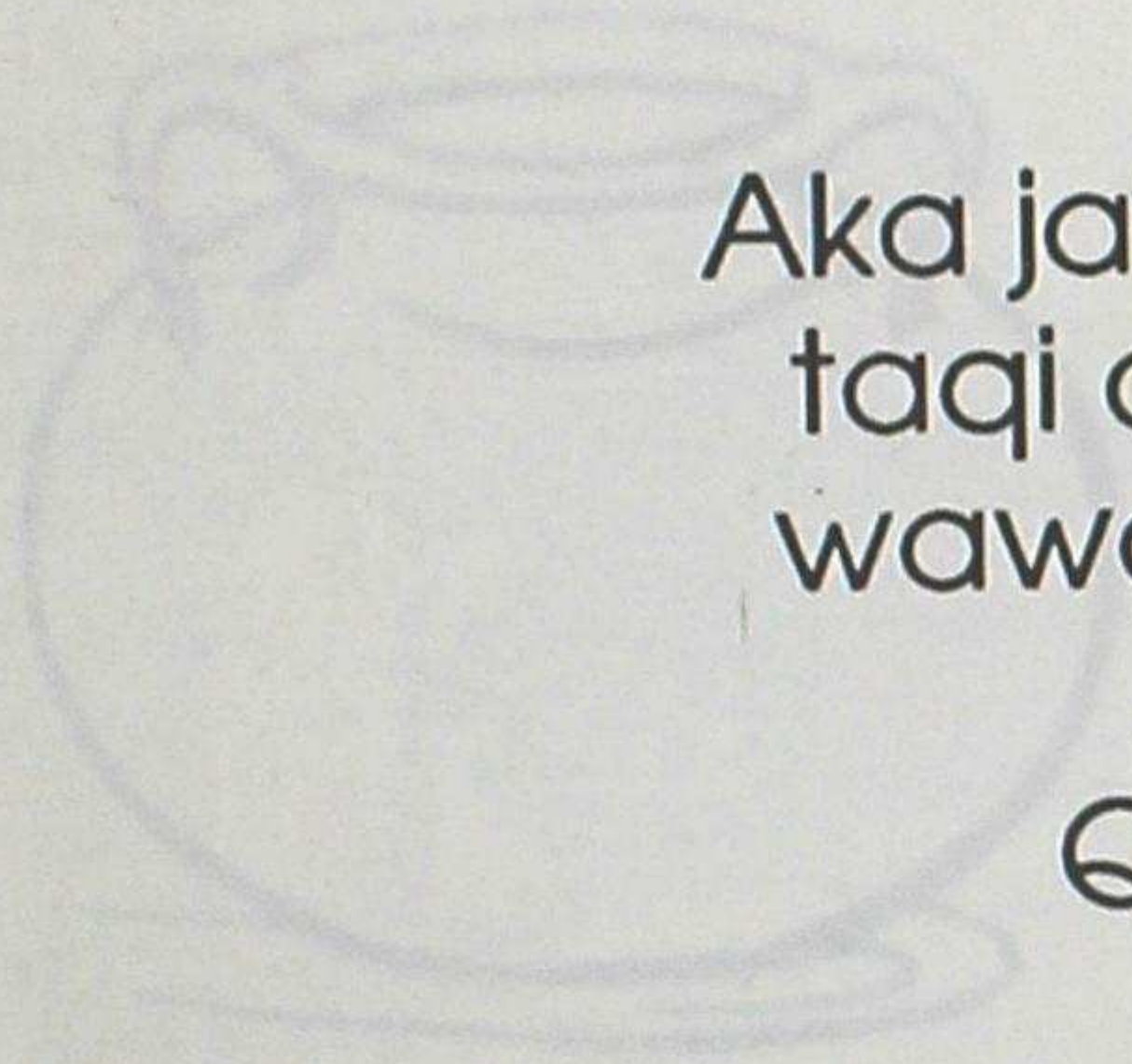


Marlano Baptista G.  
Ministro de Educación y Cultura

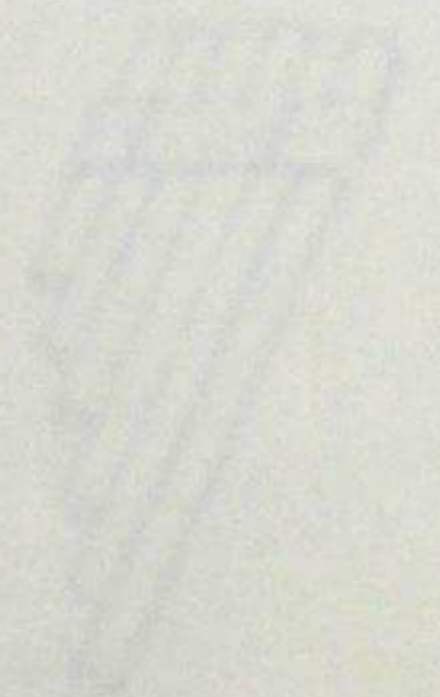




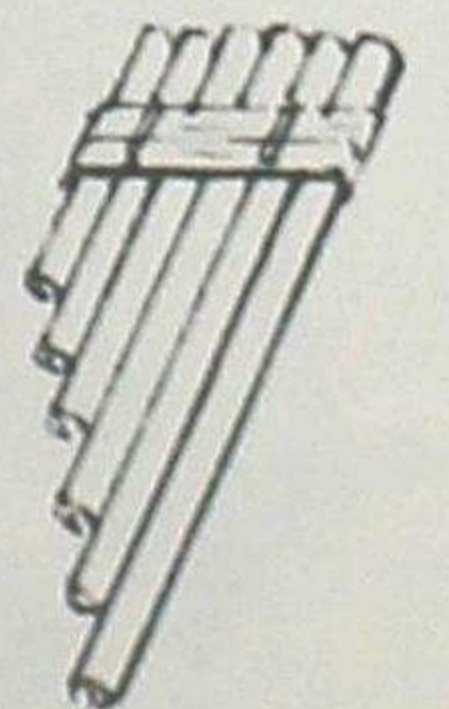
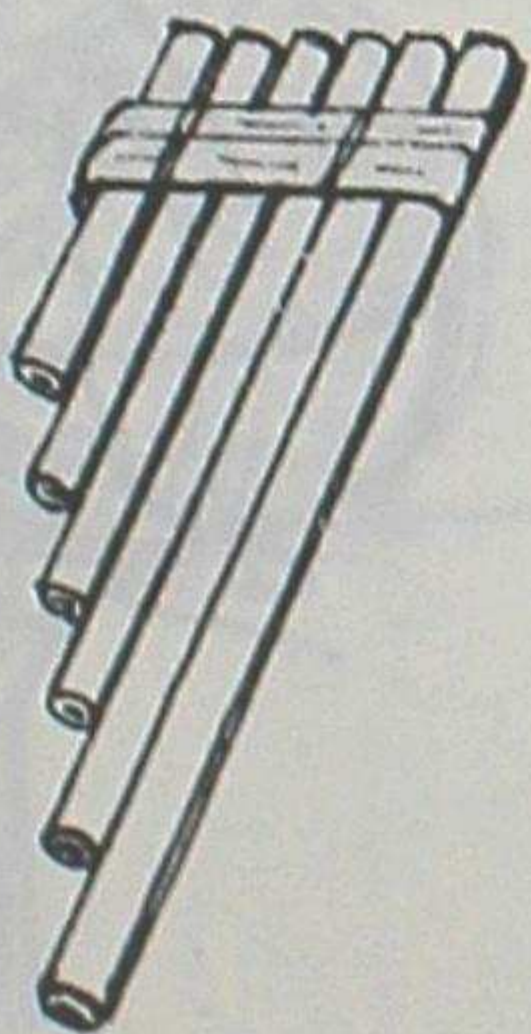
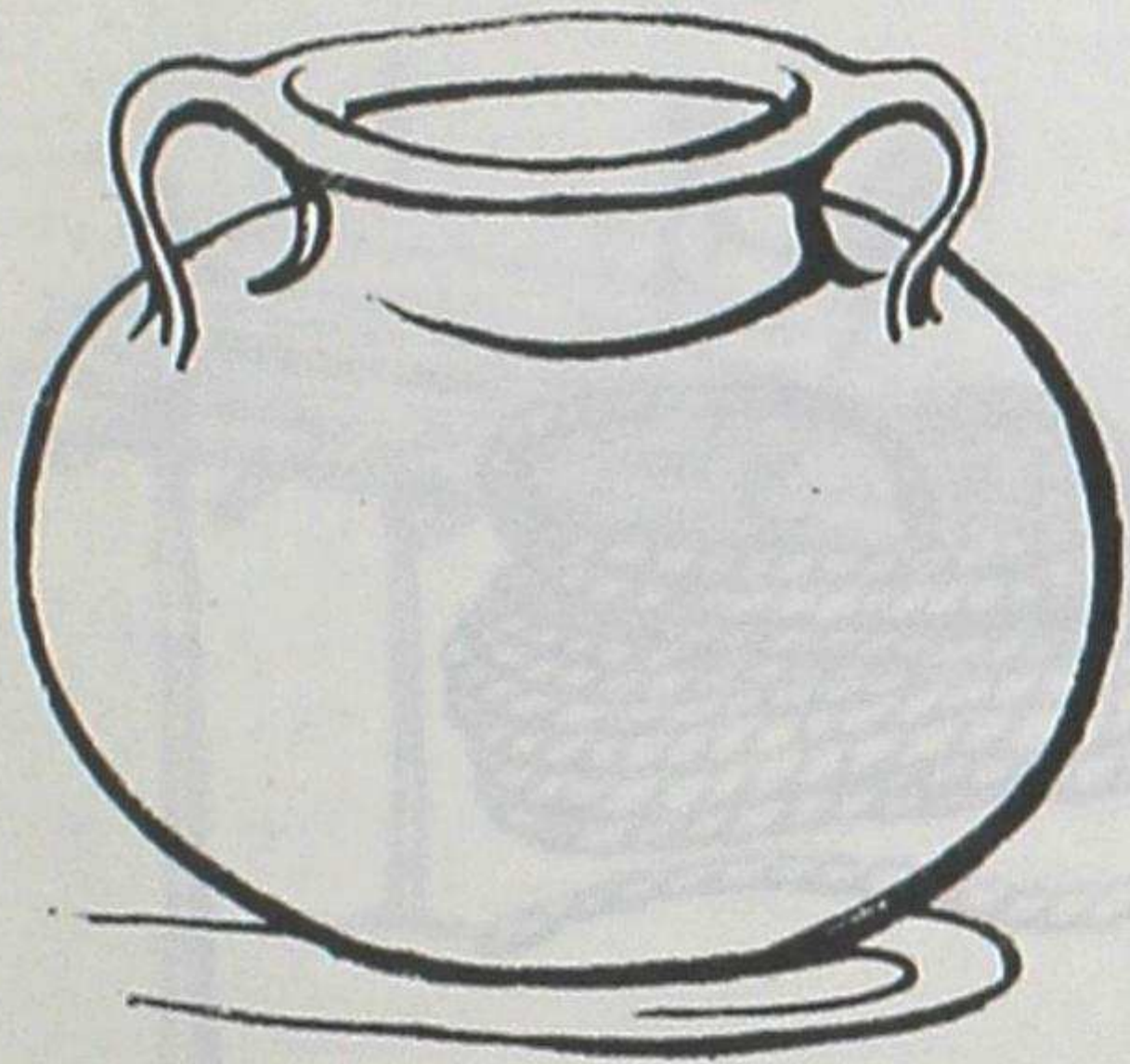
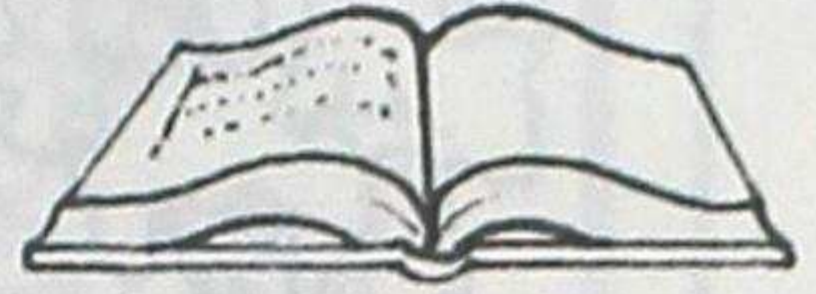
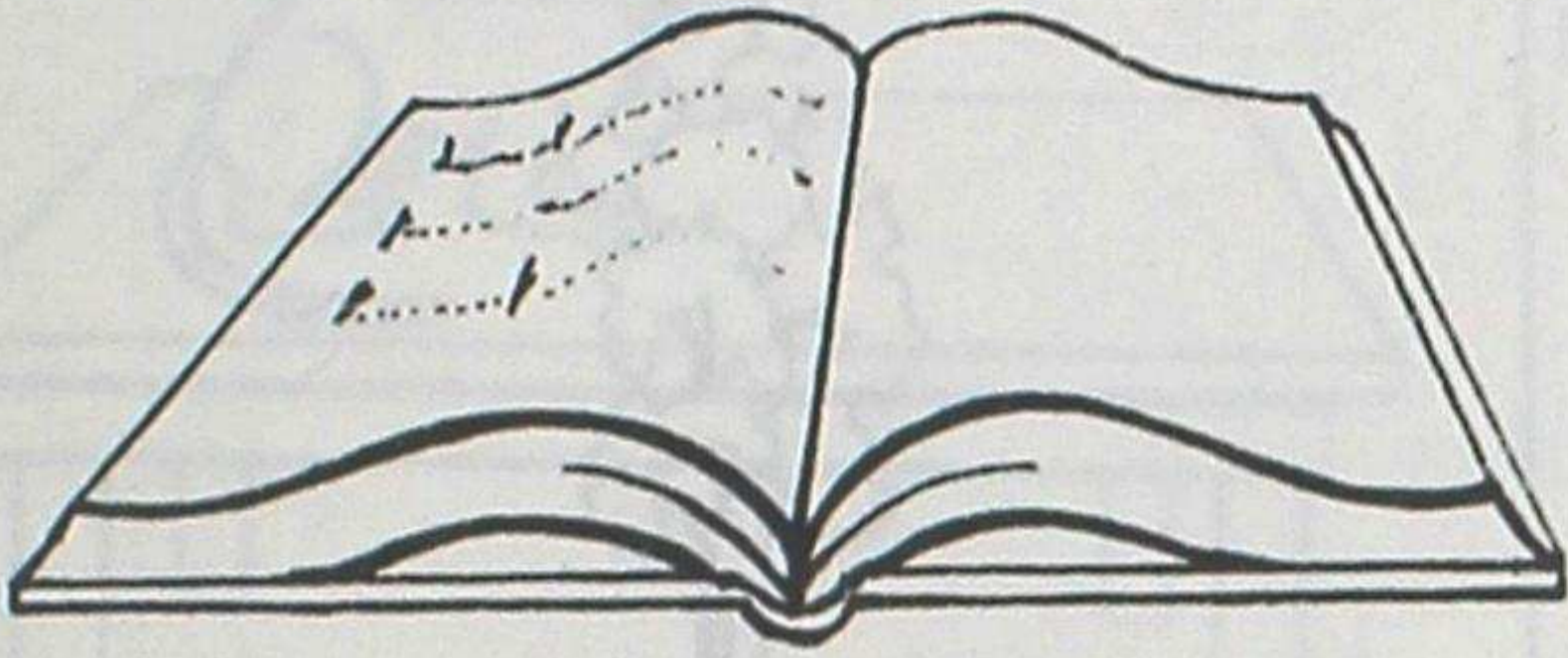
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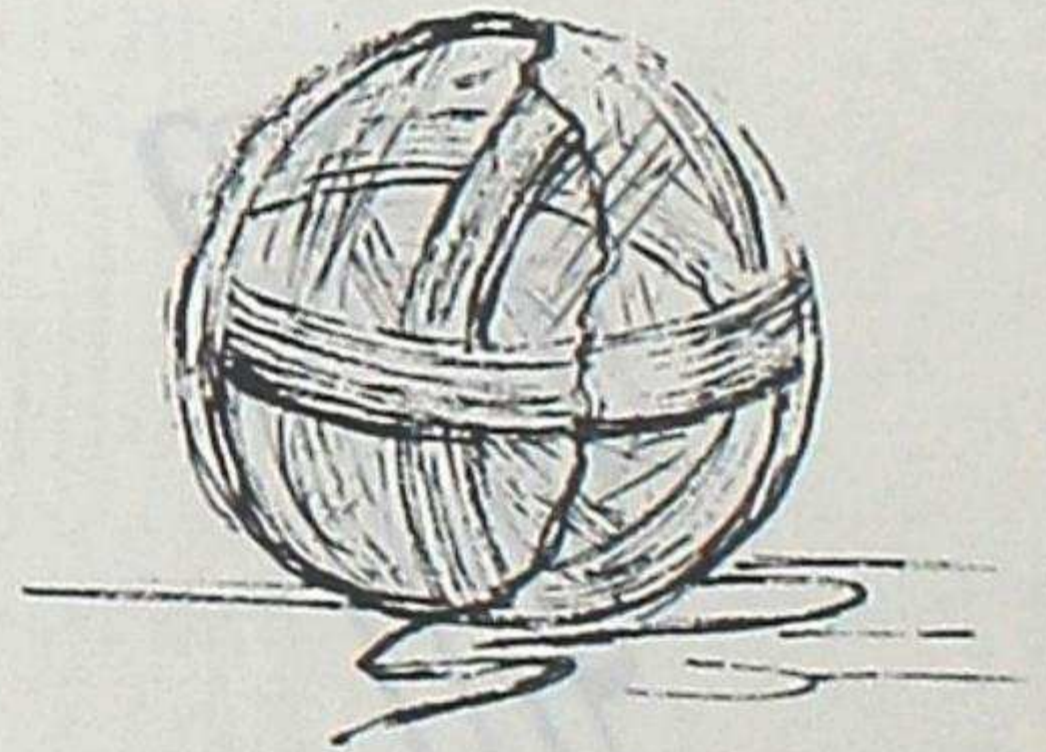
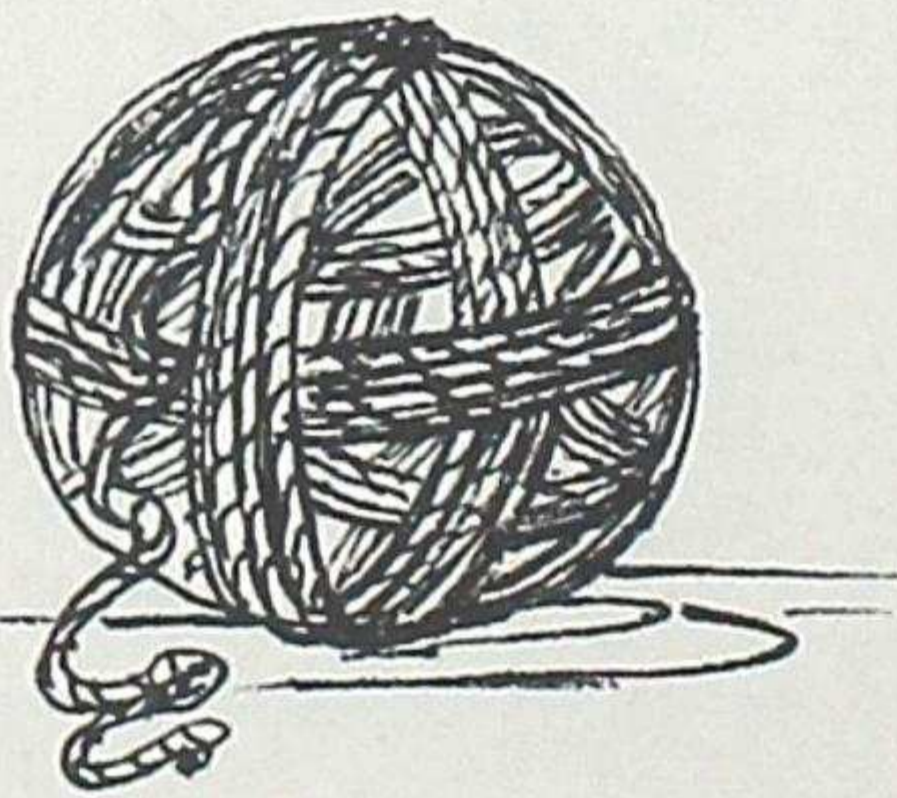
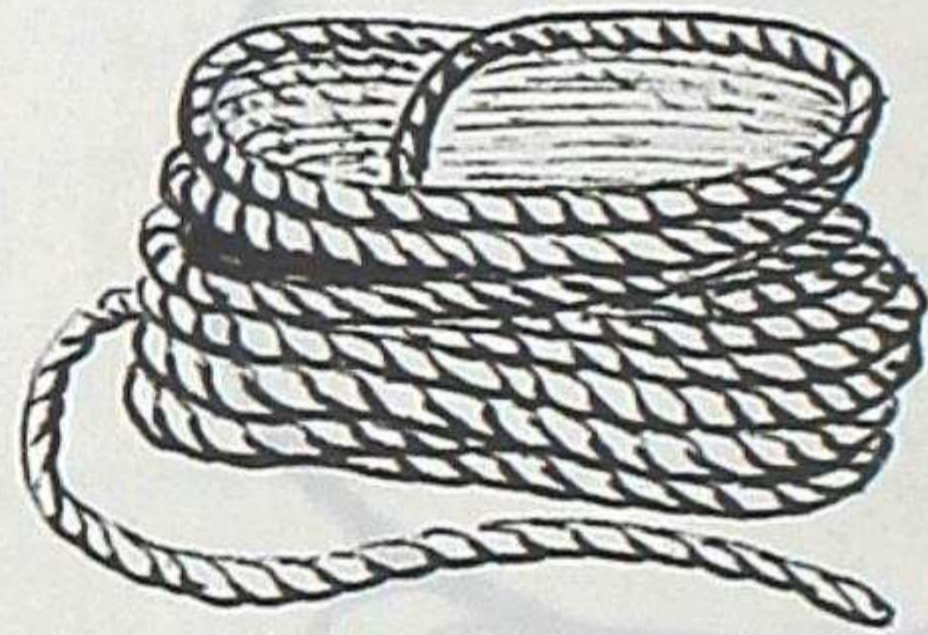
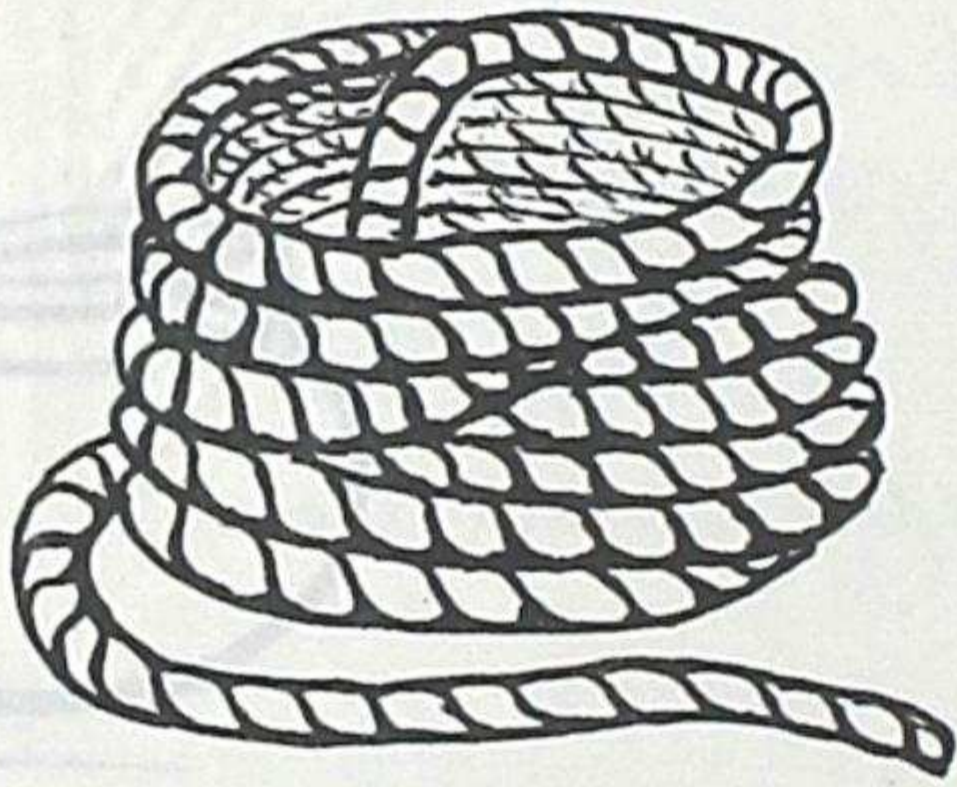
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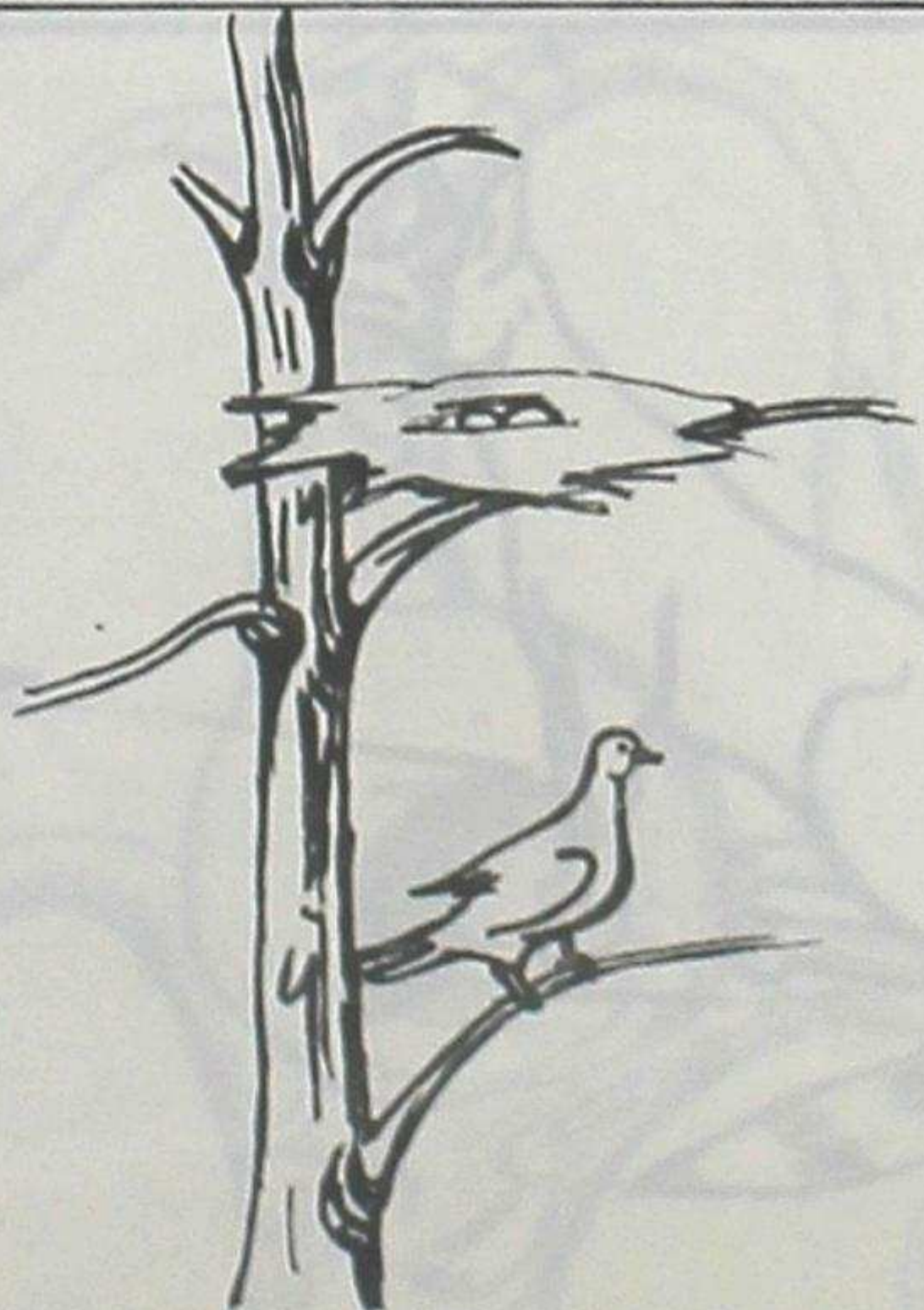
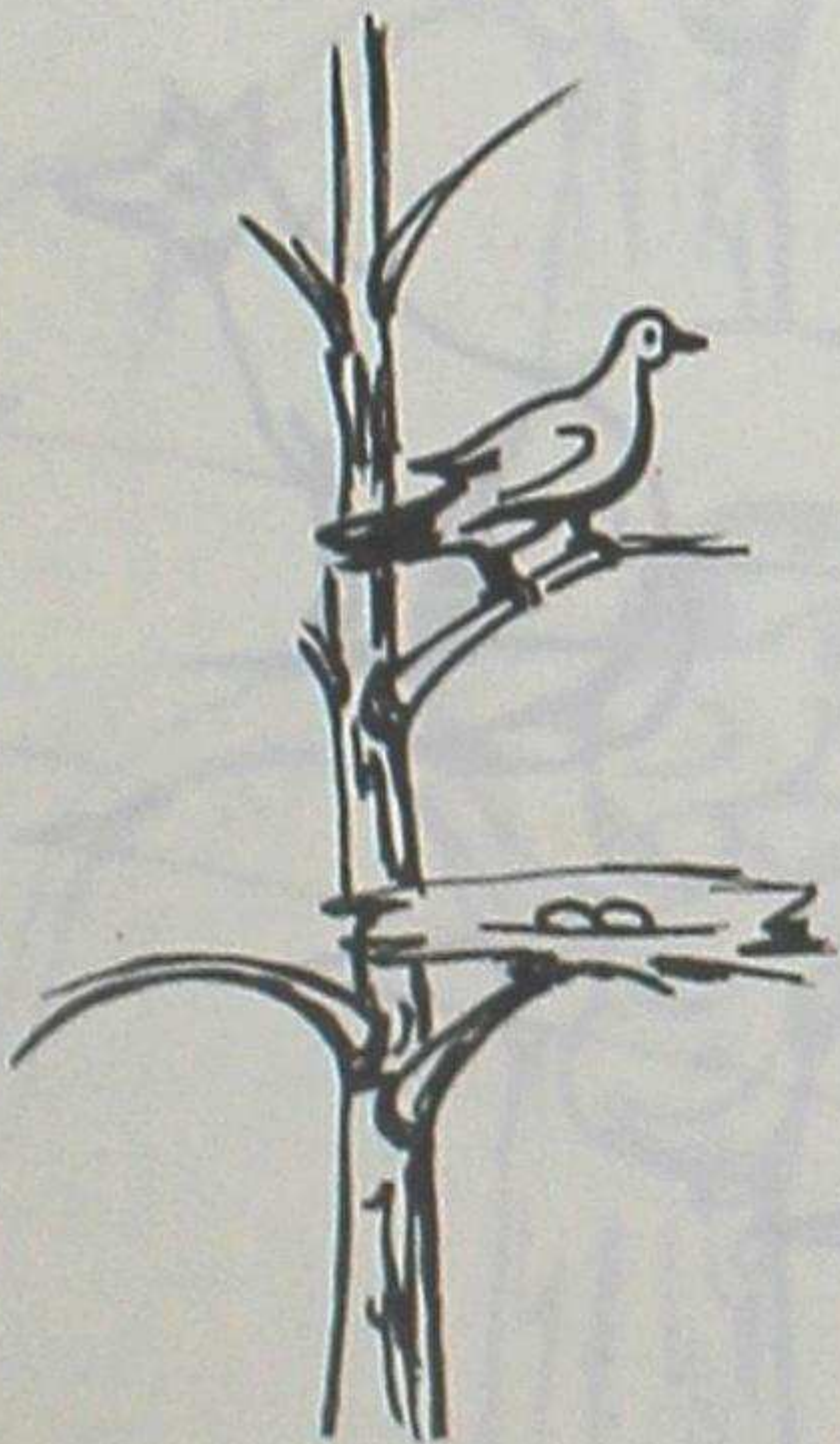
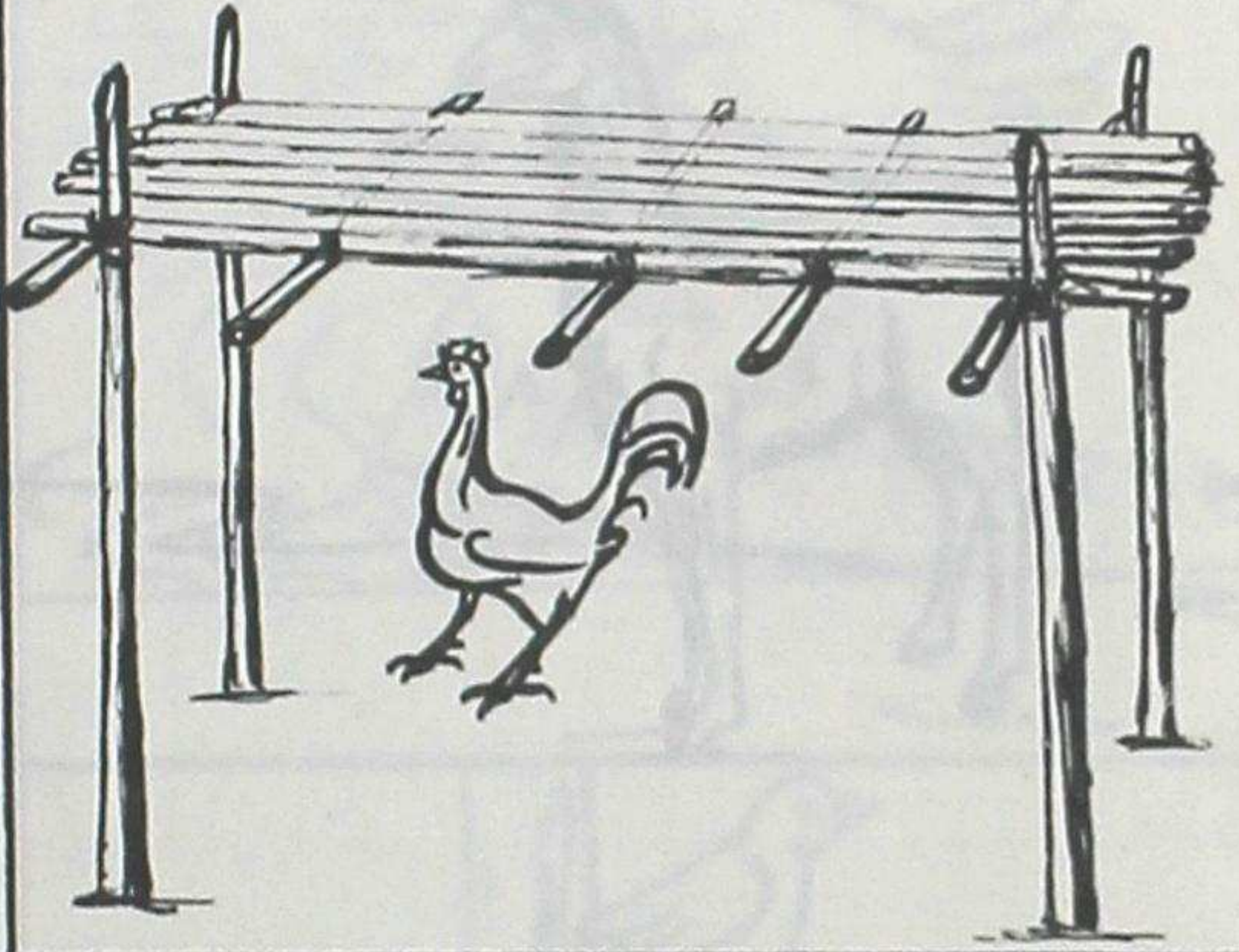
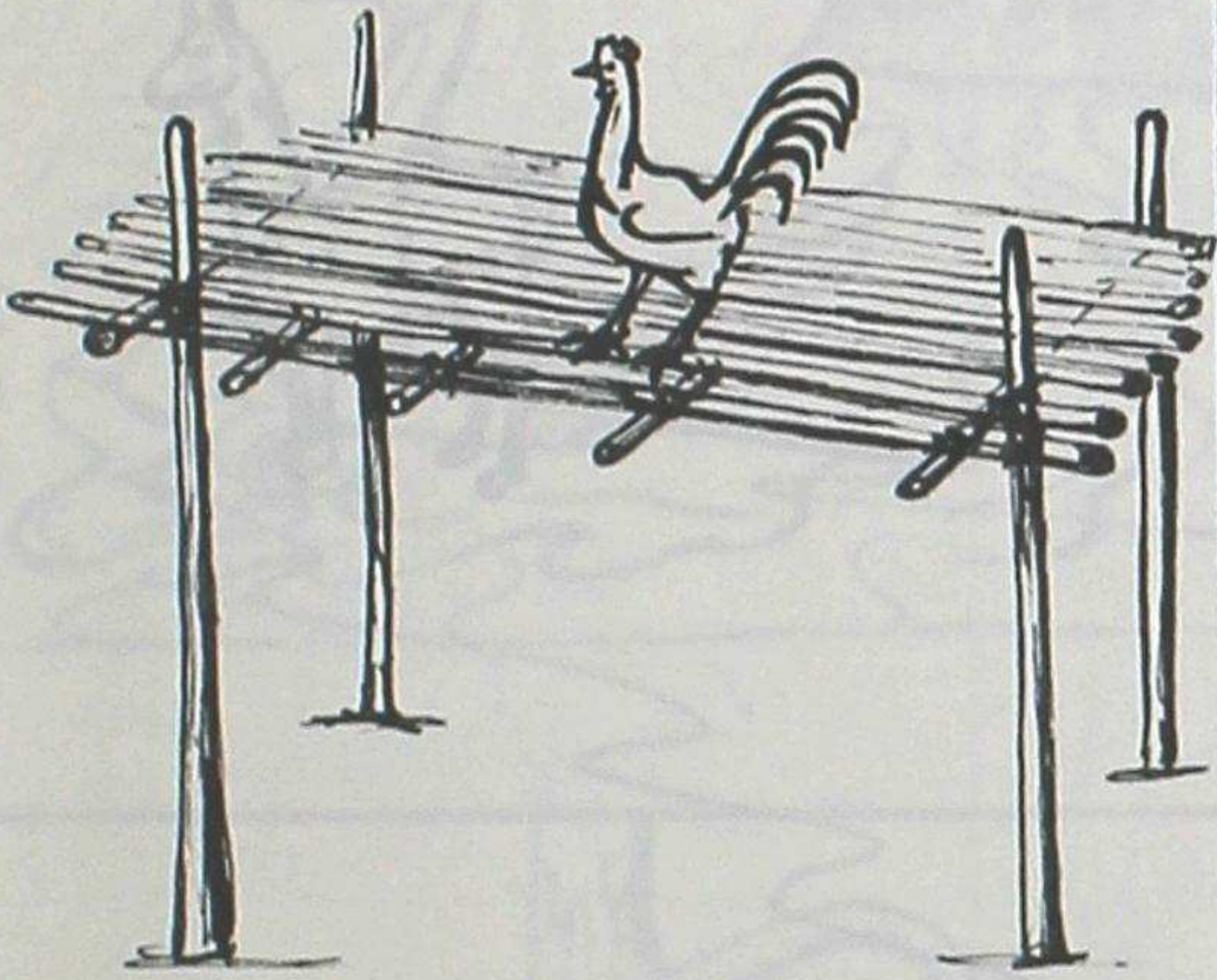
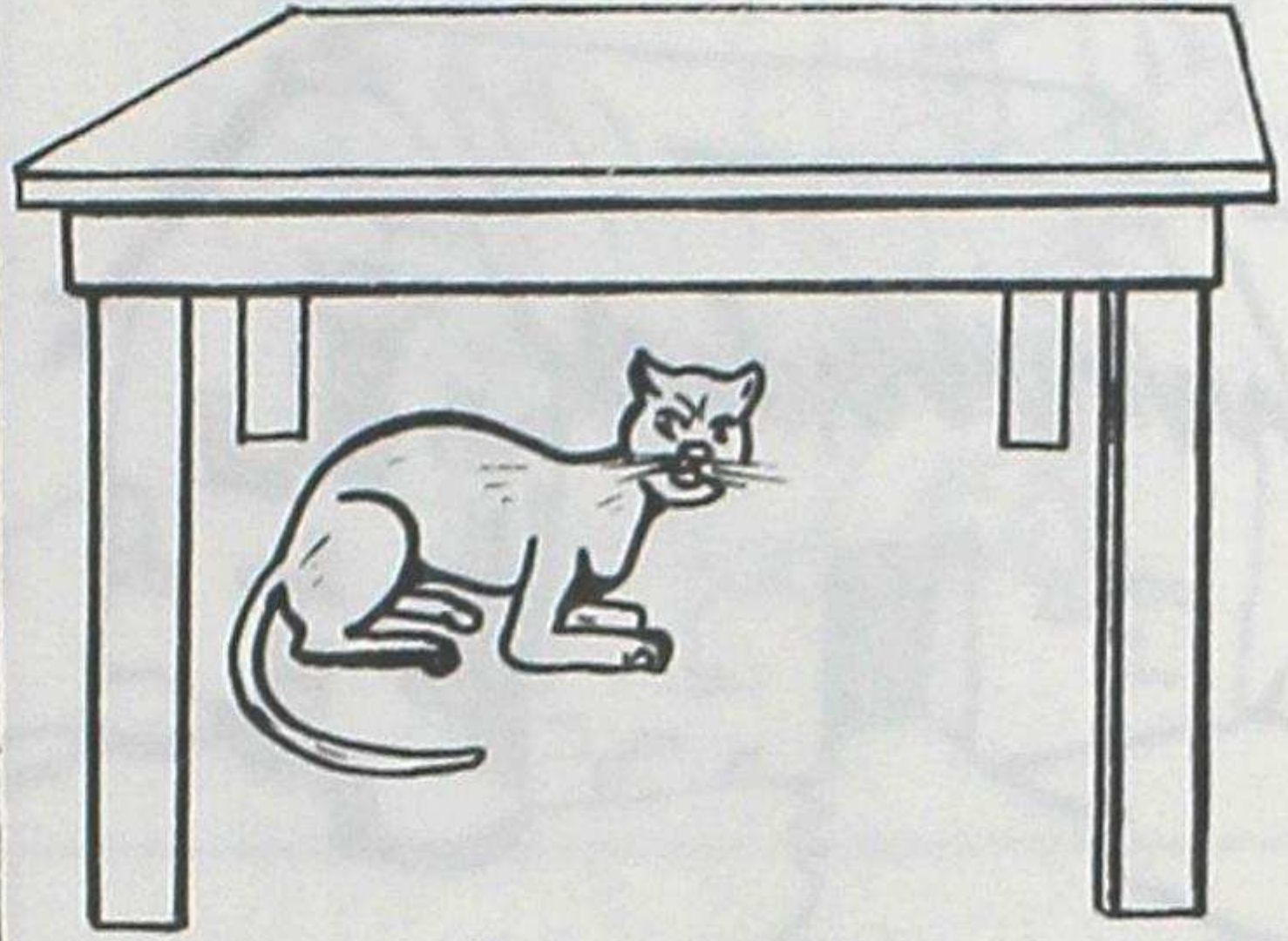
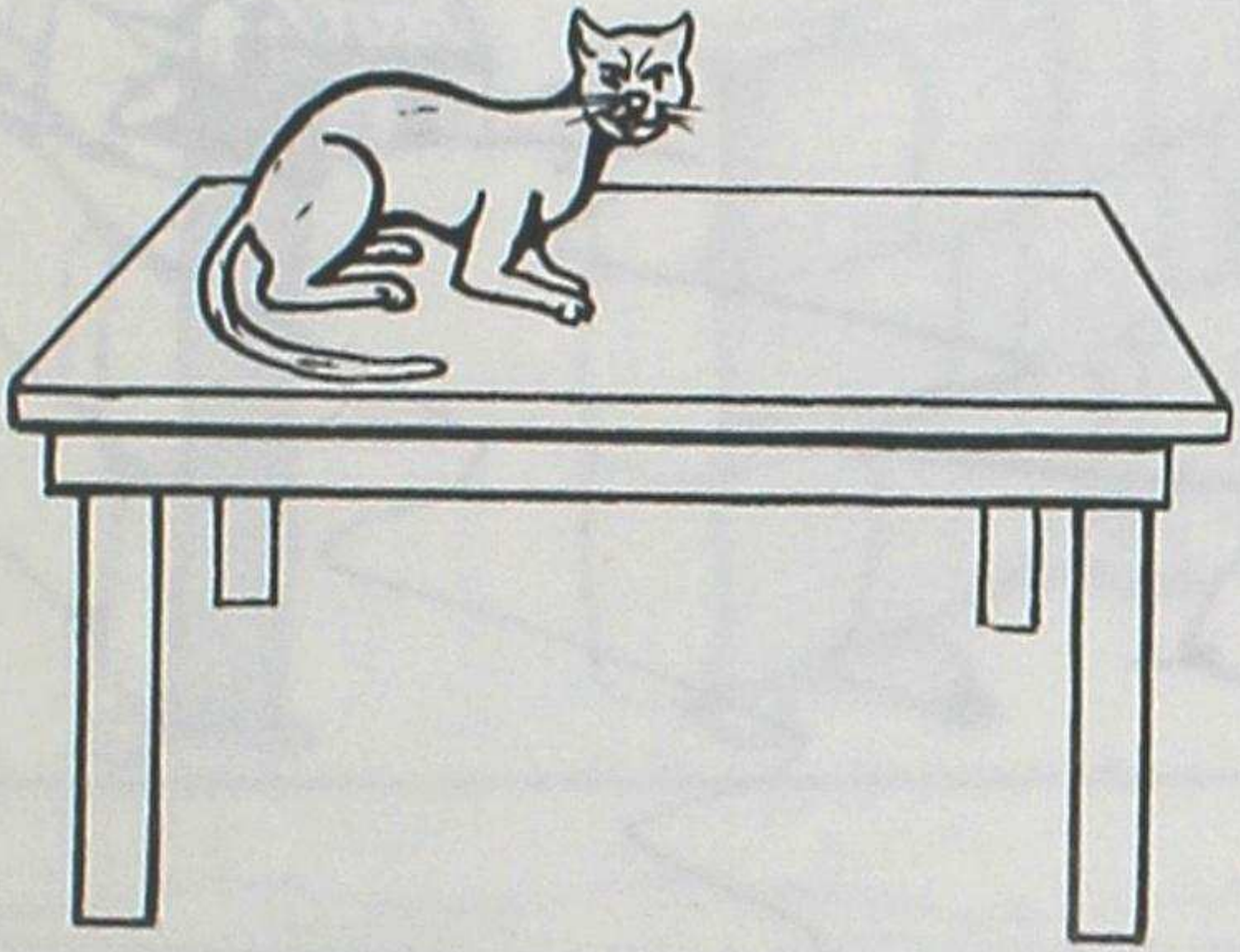




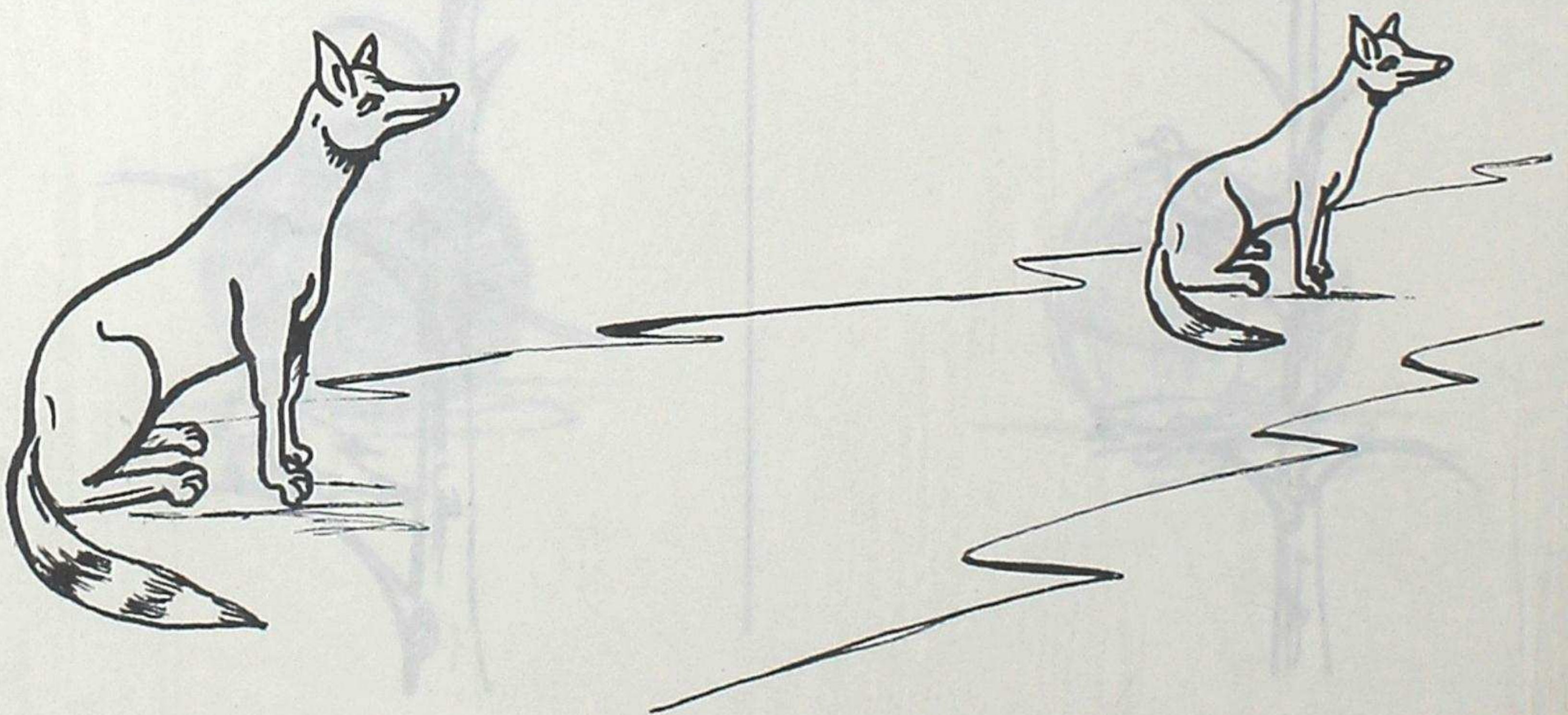
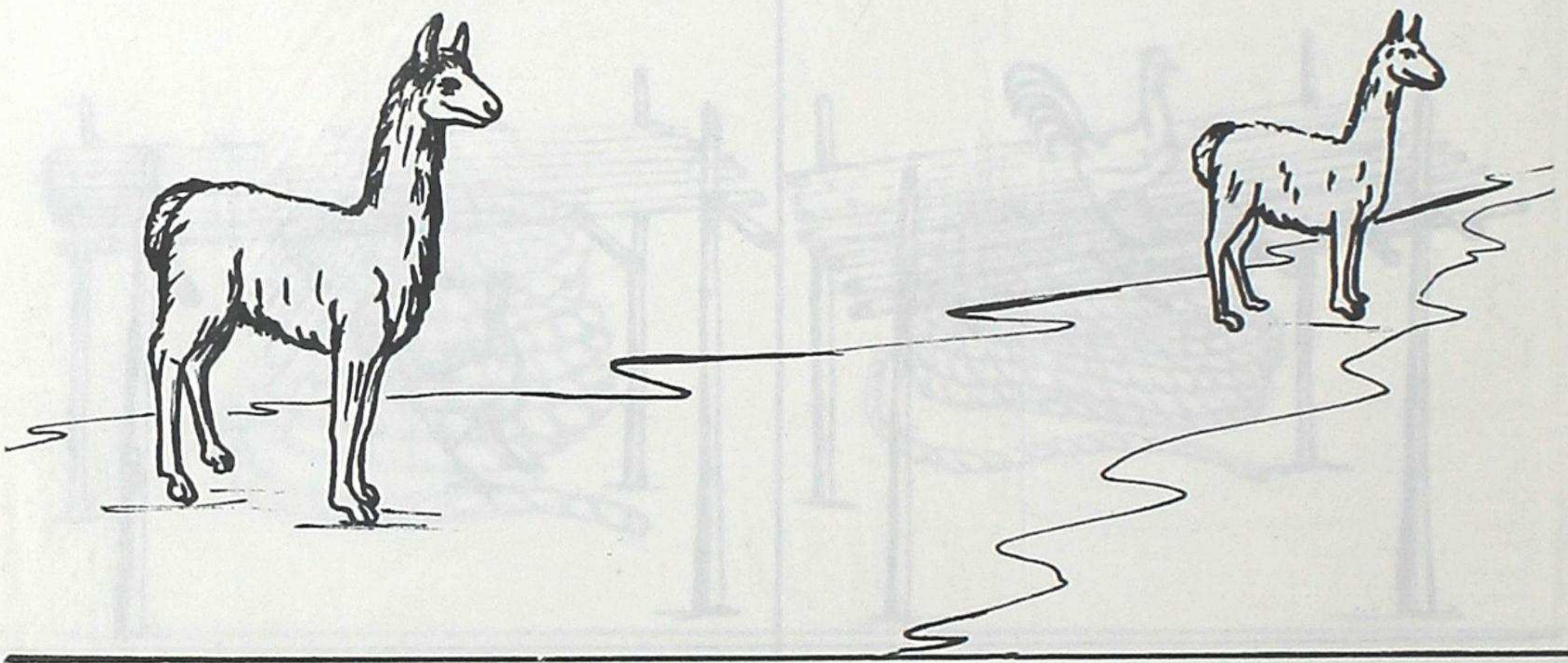
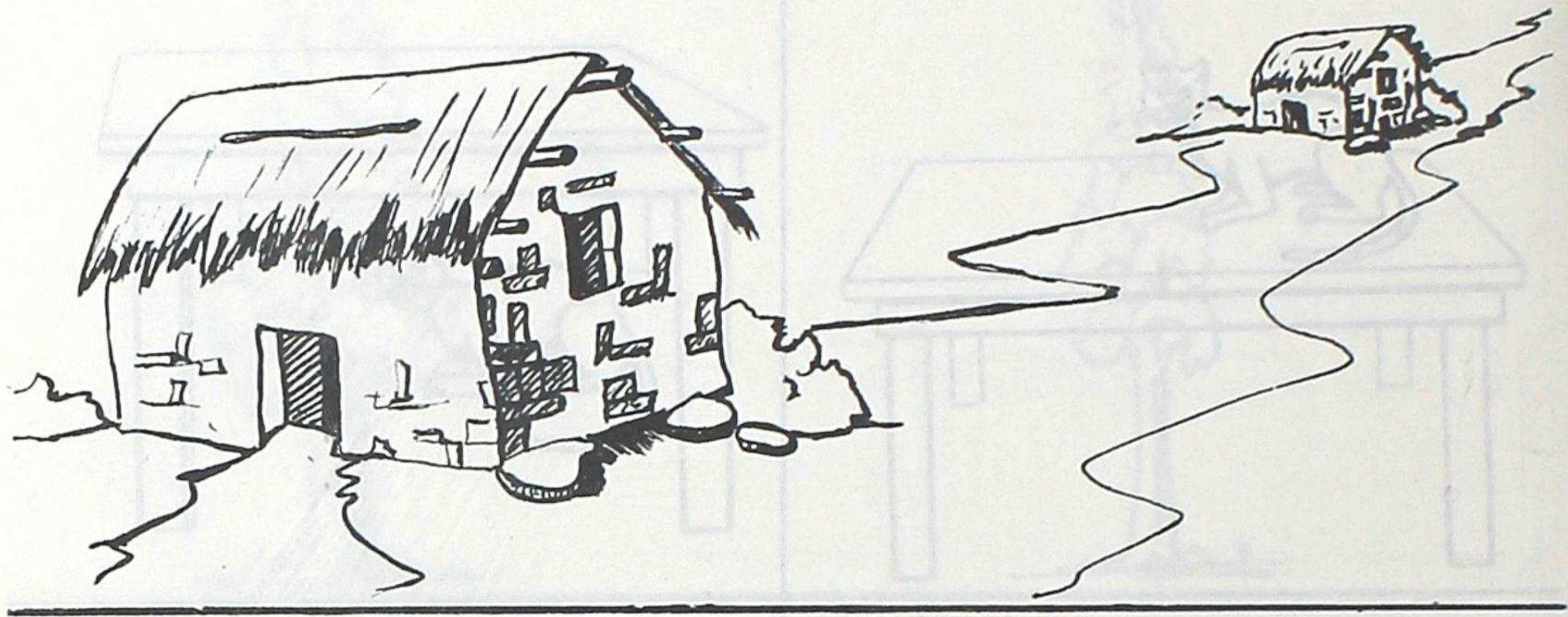




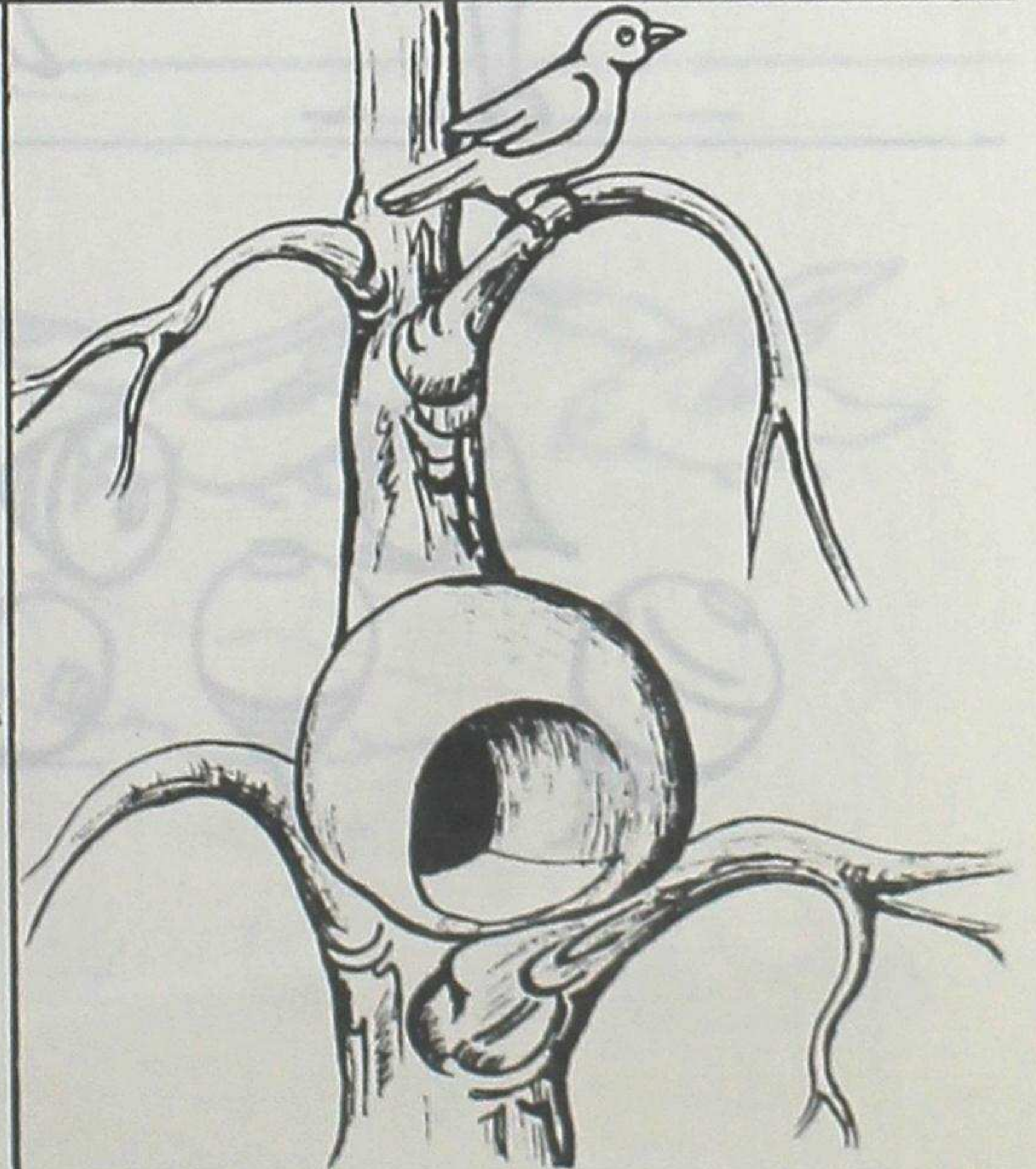
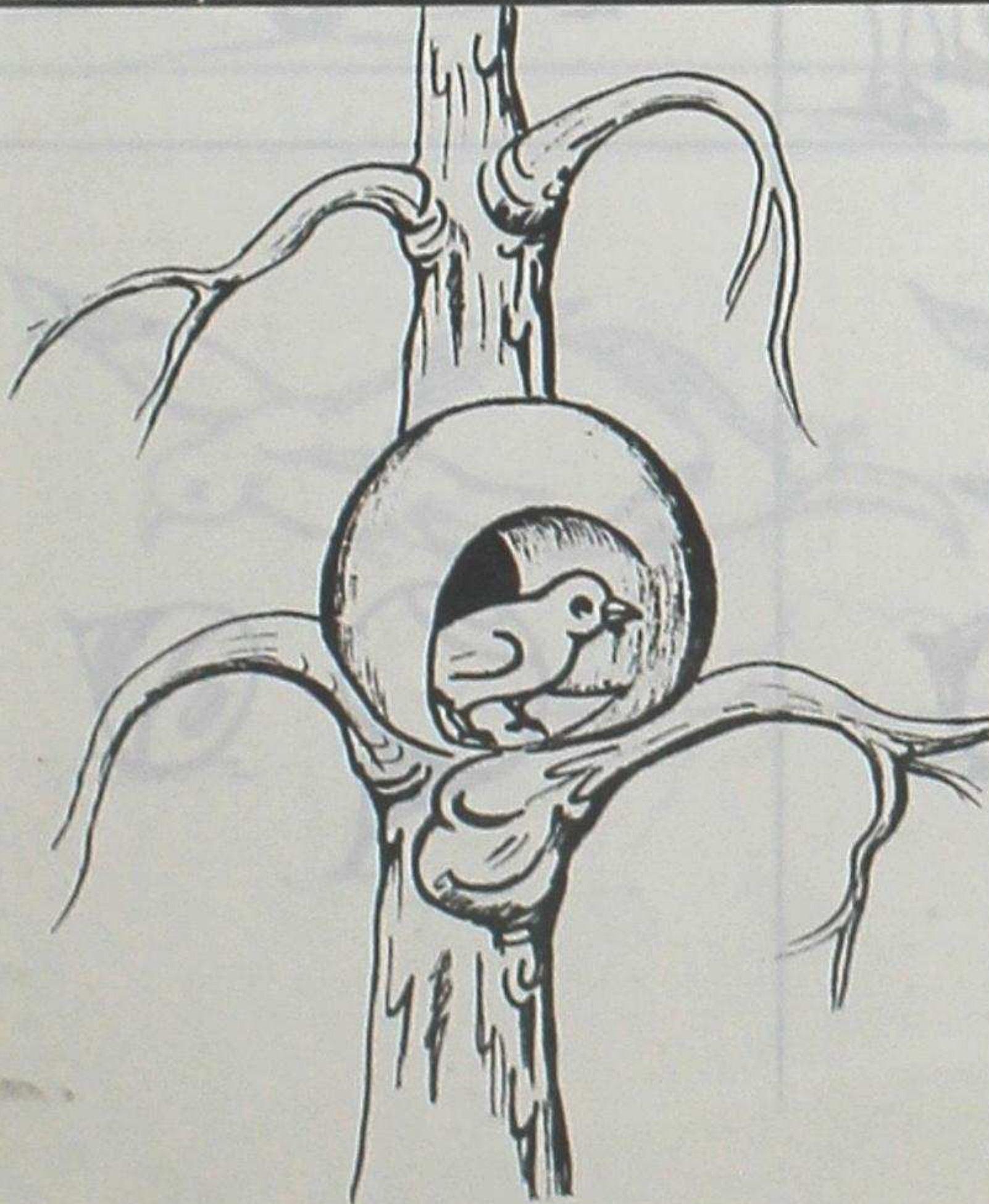
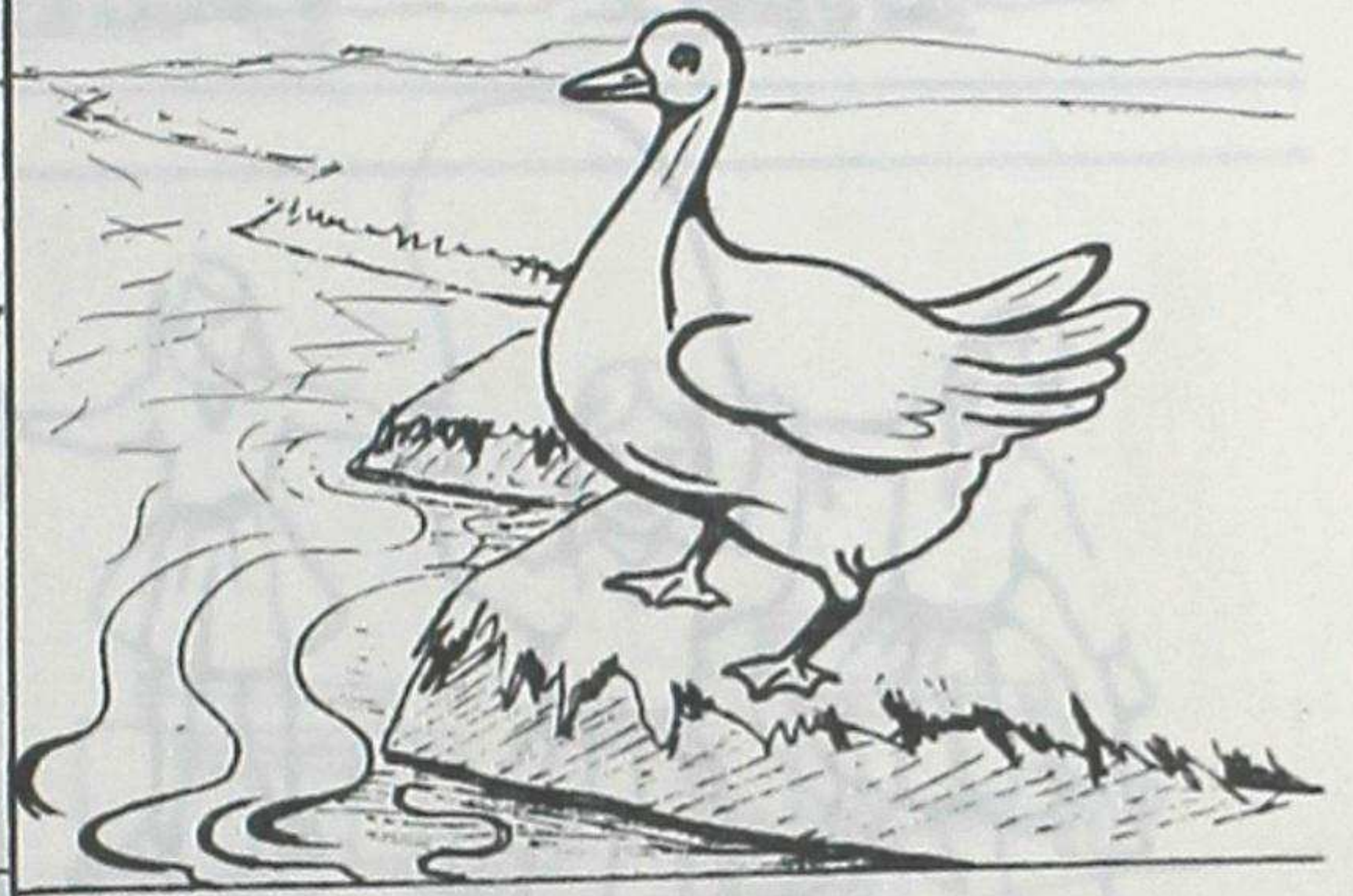
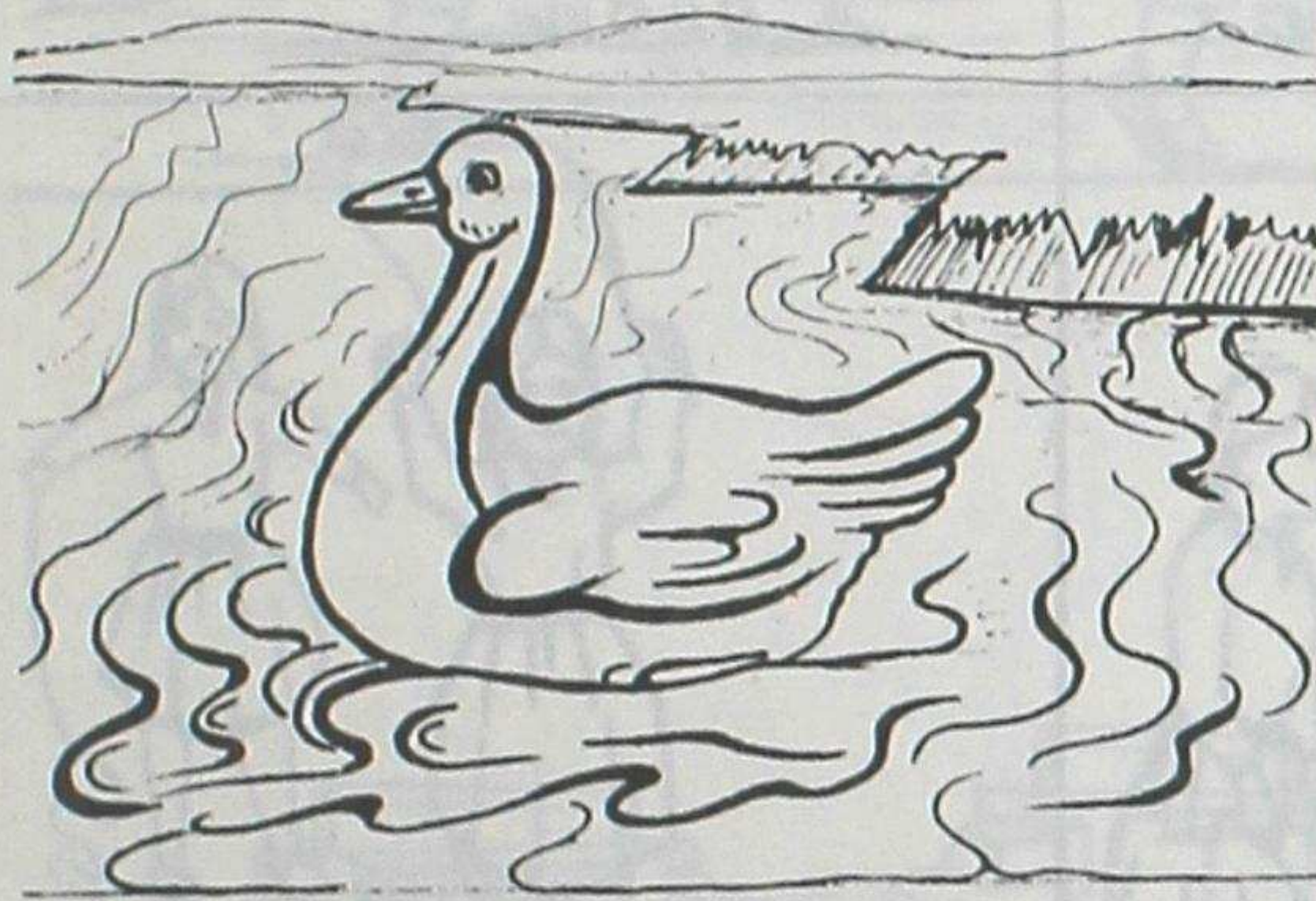
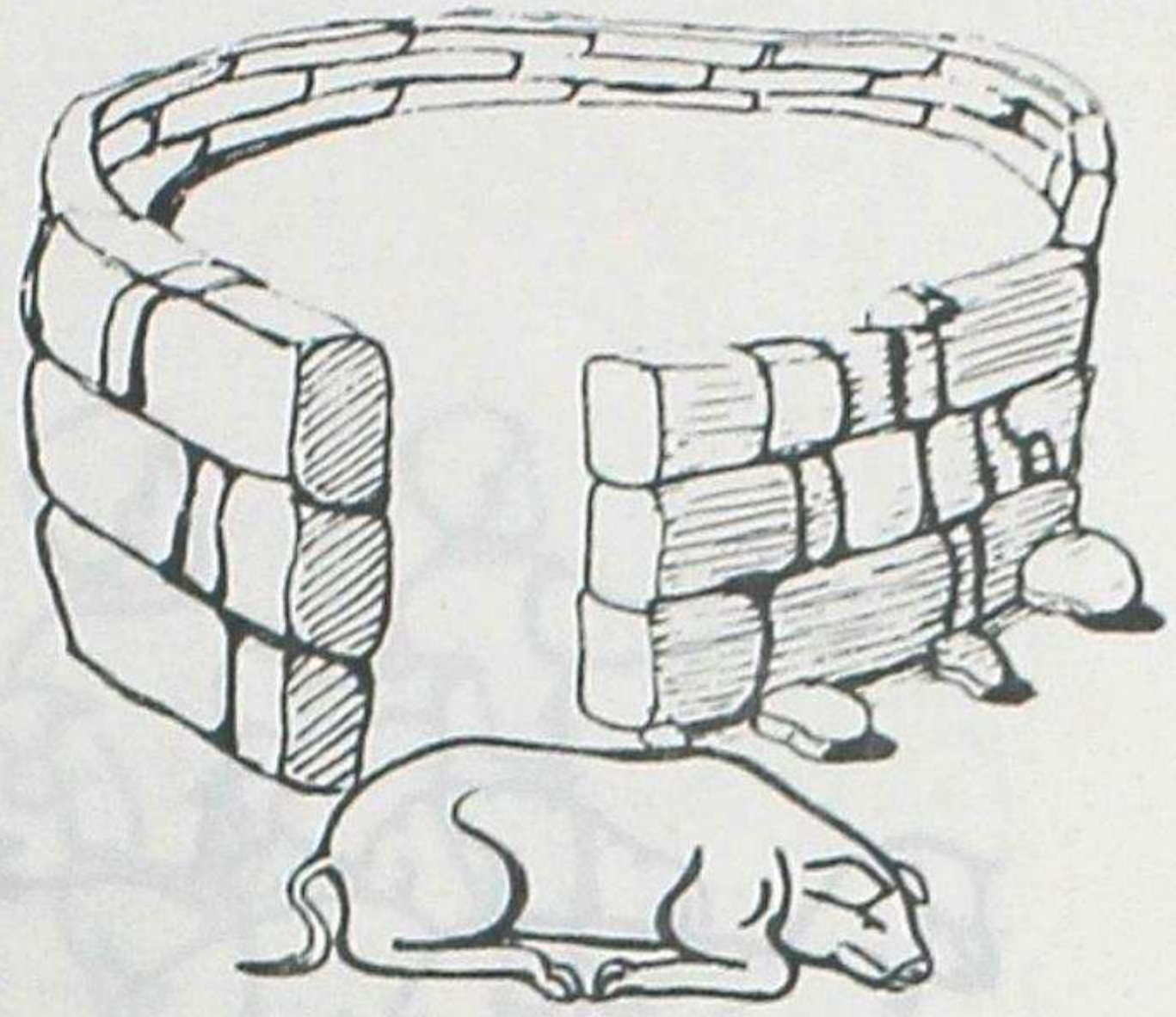
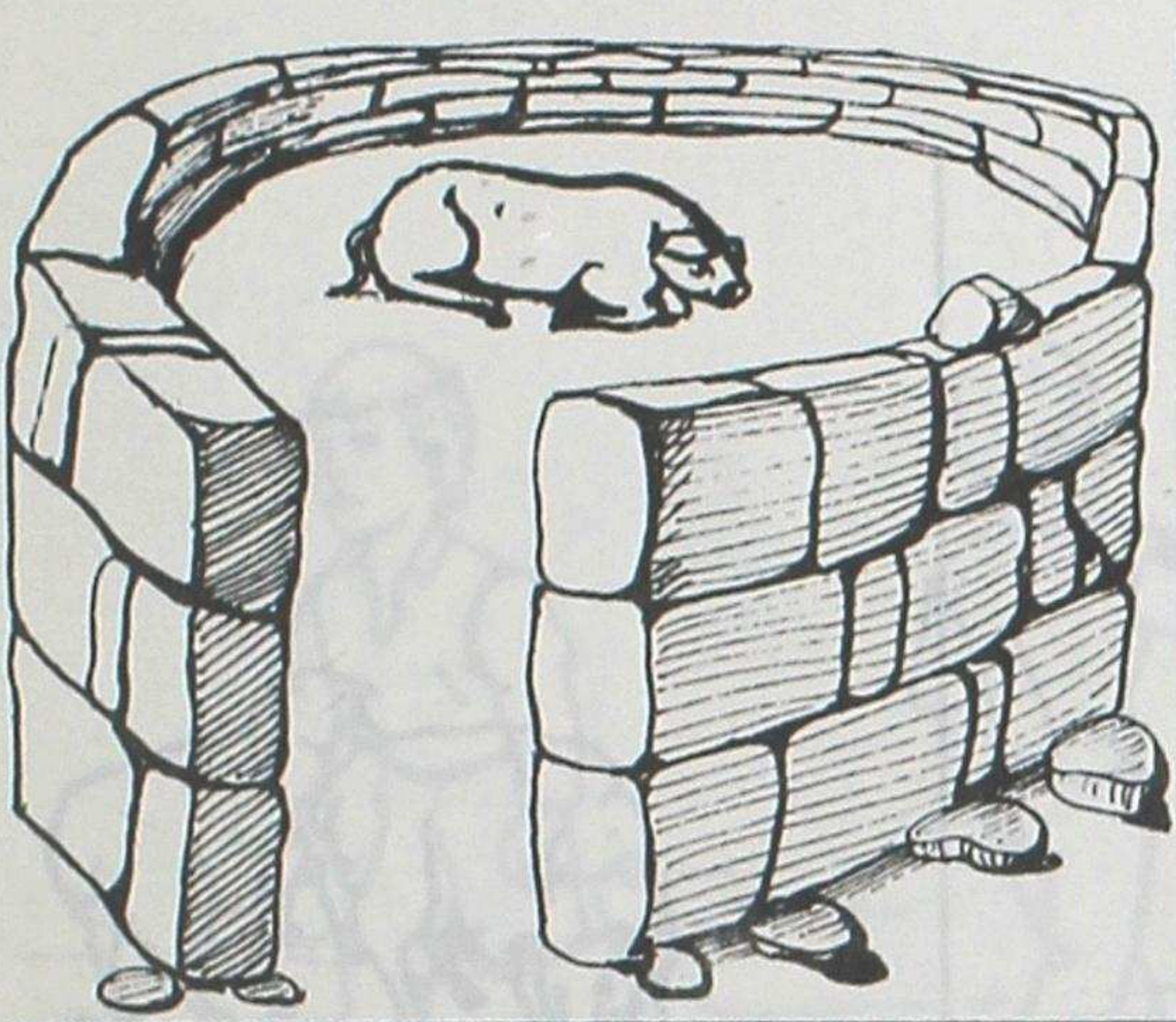




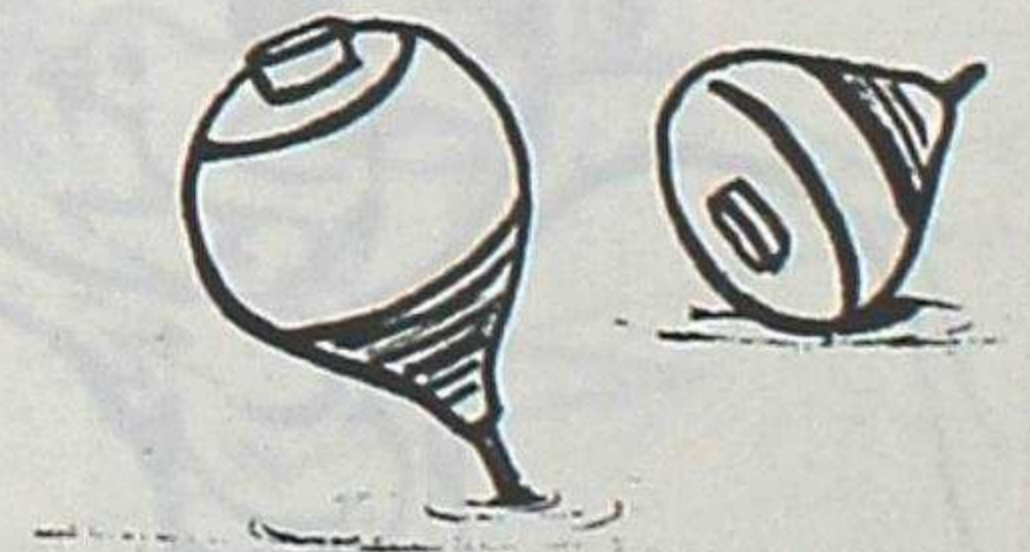
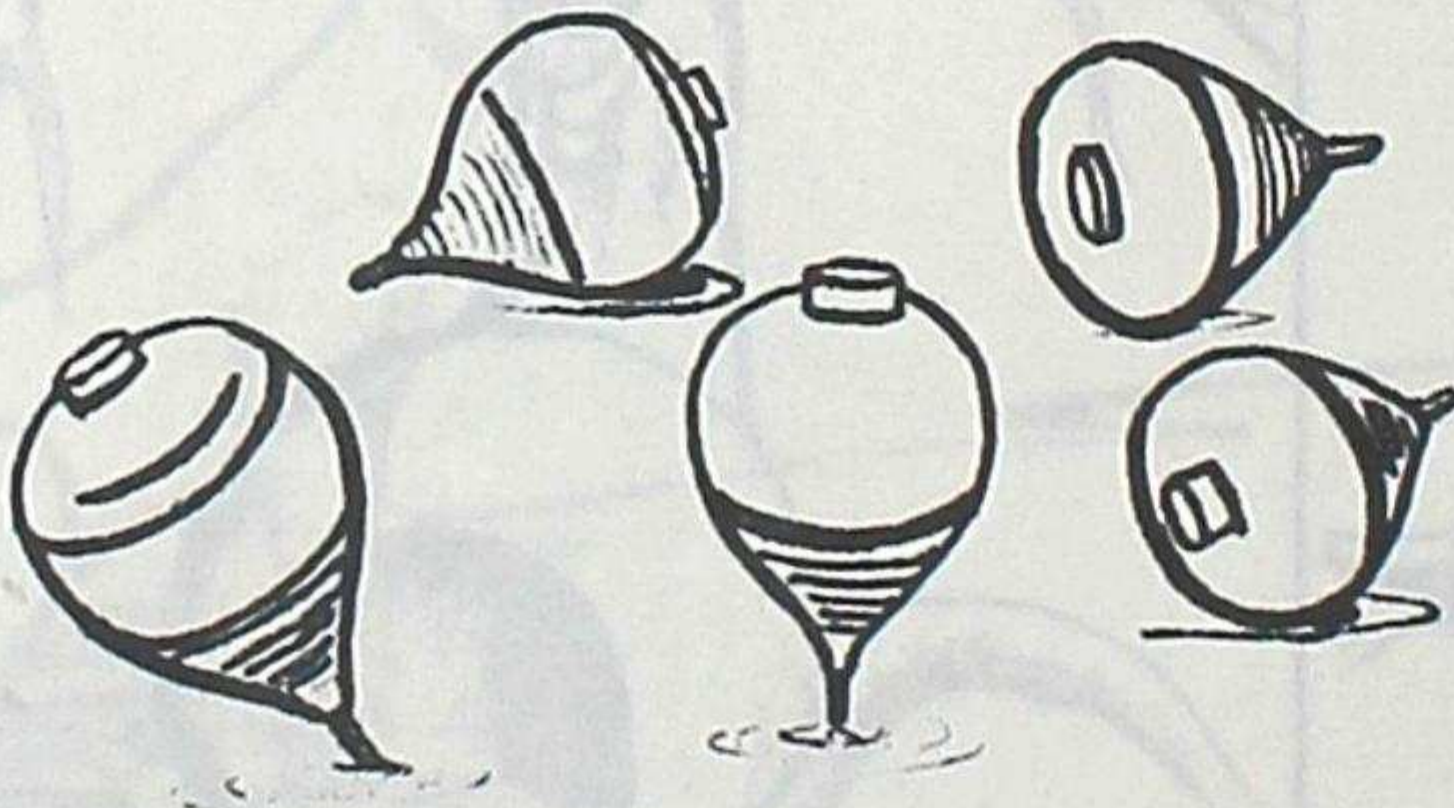
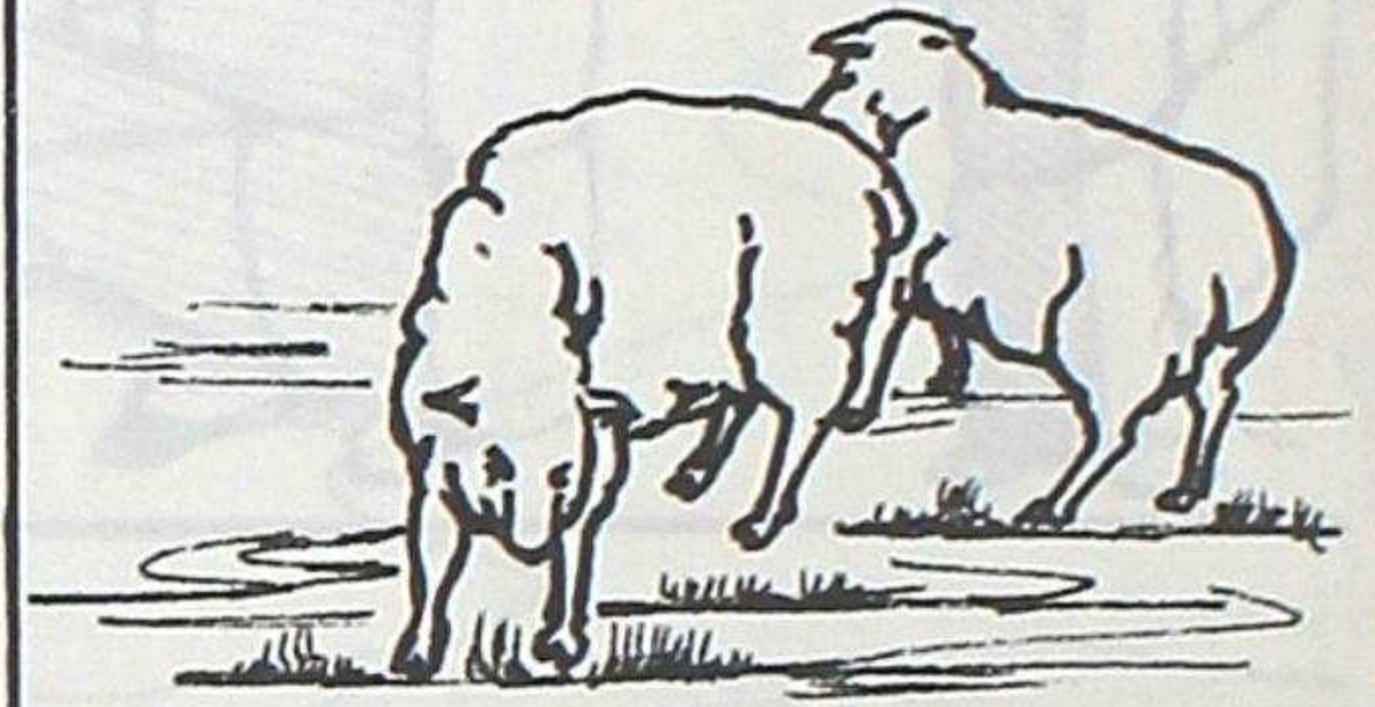
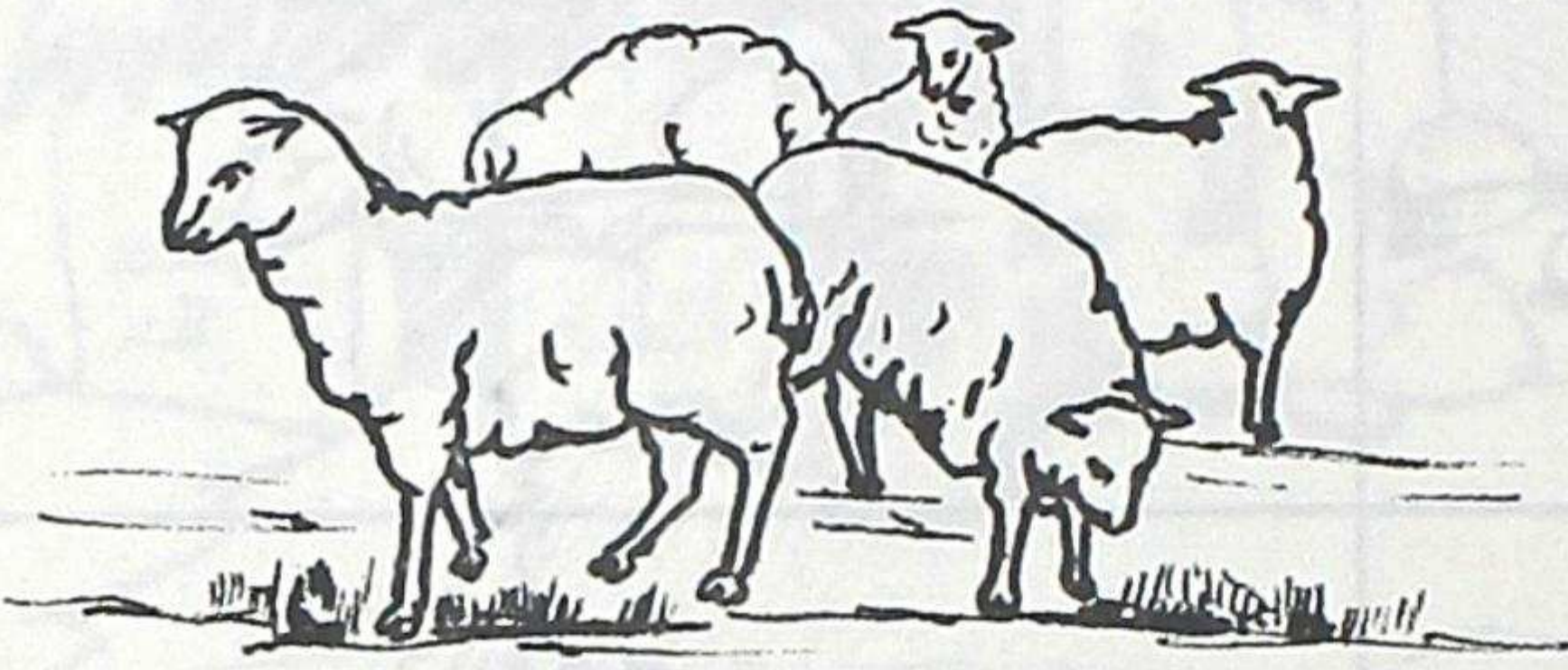




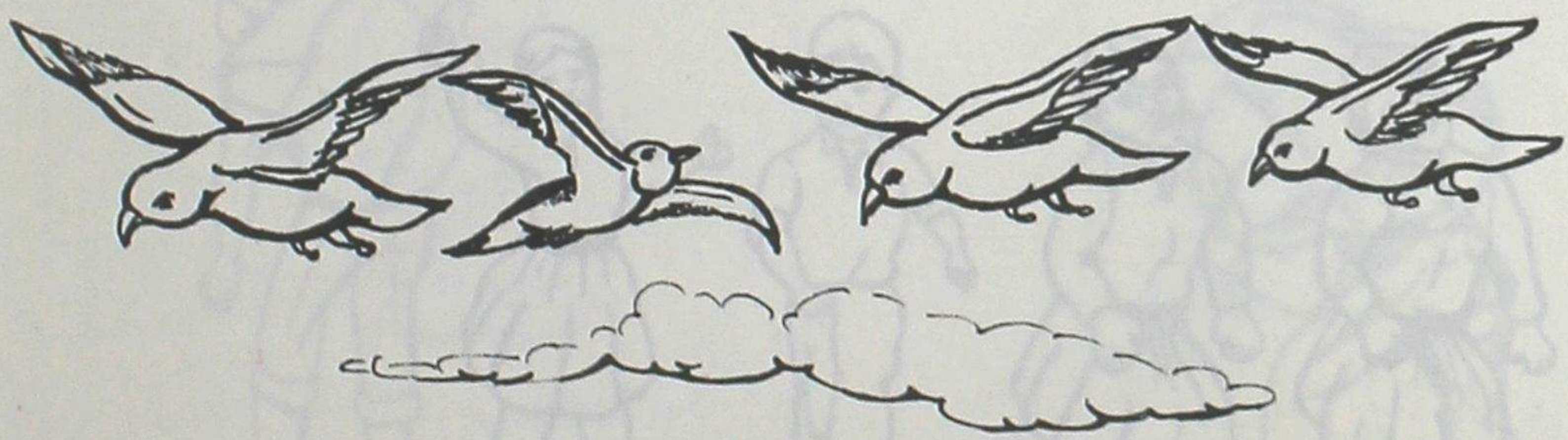
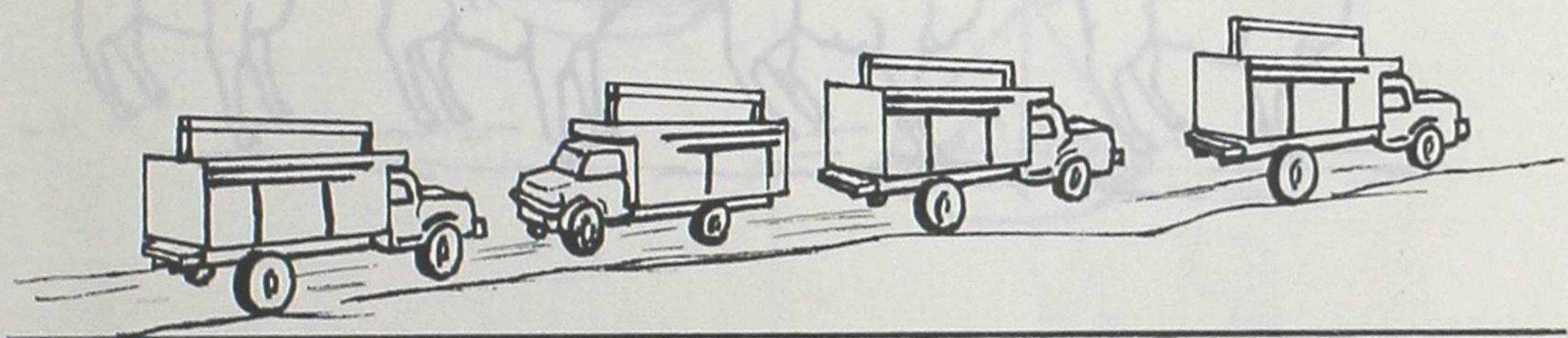
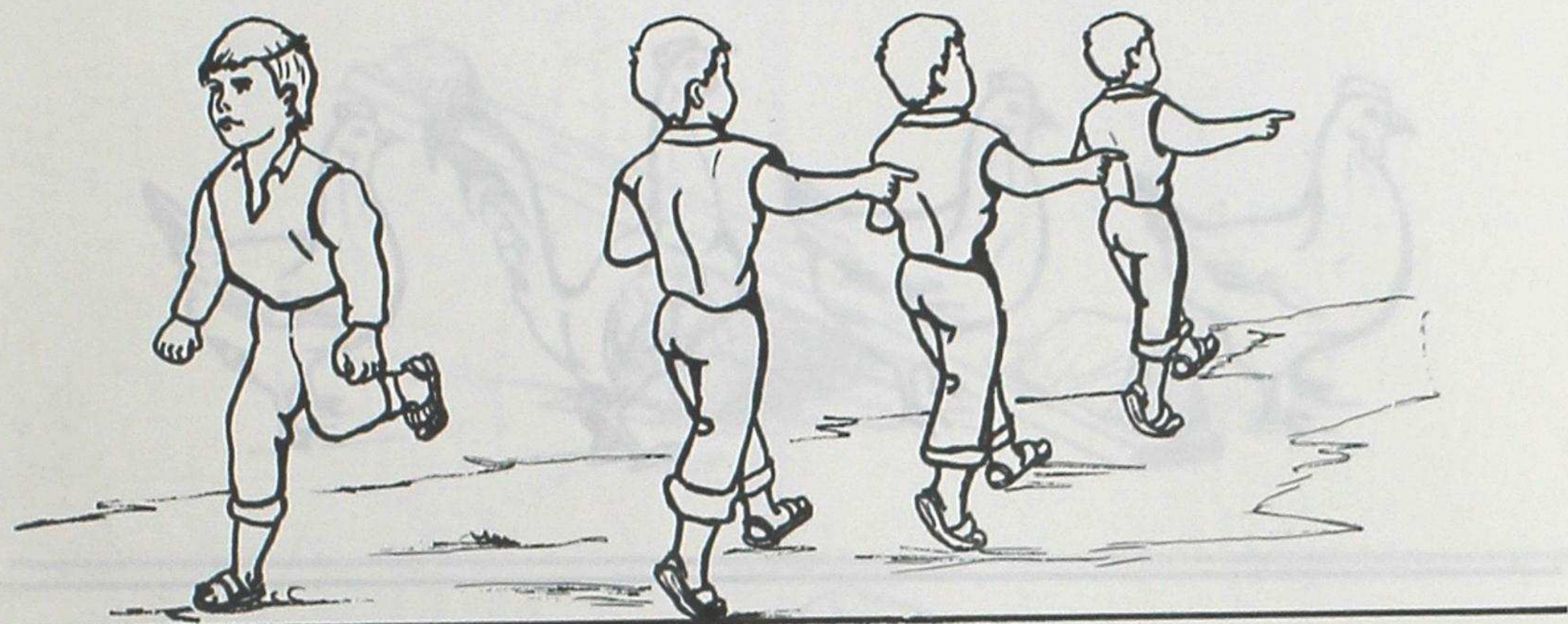




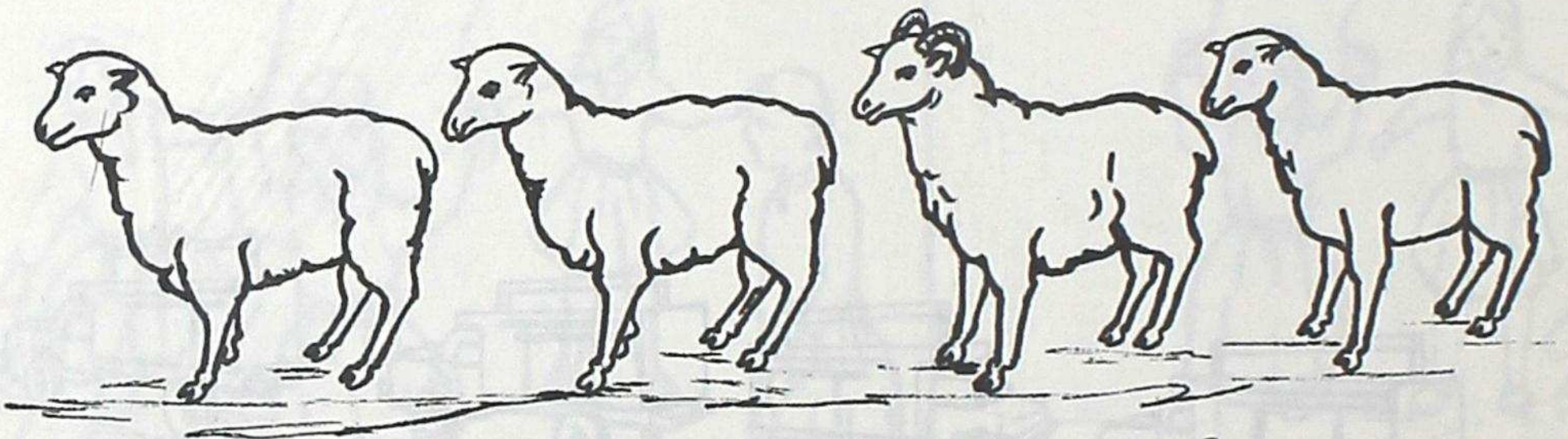
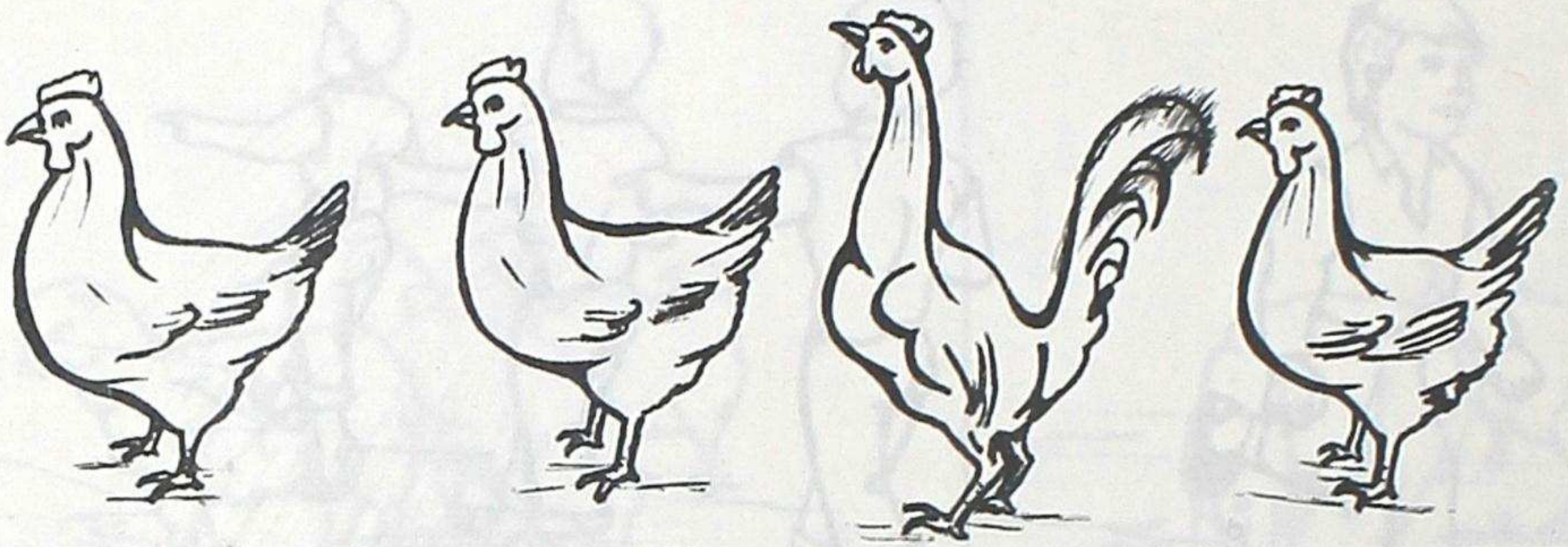




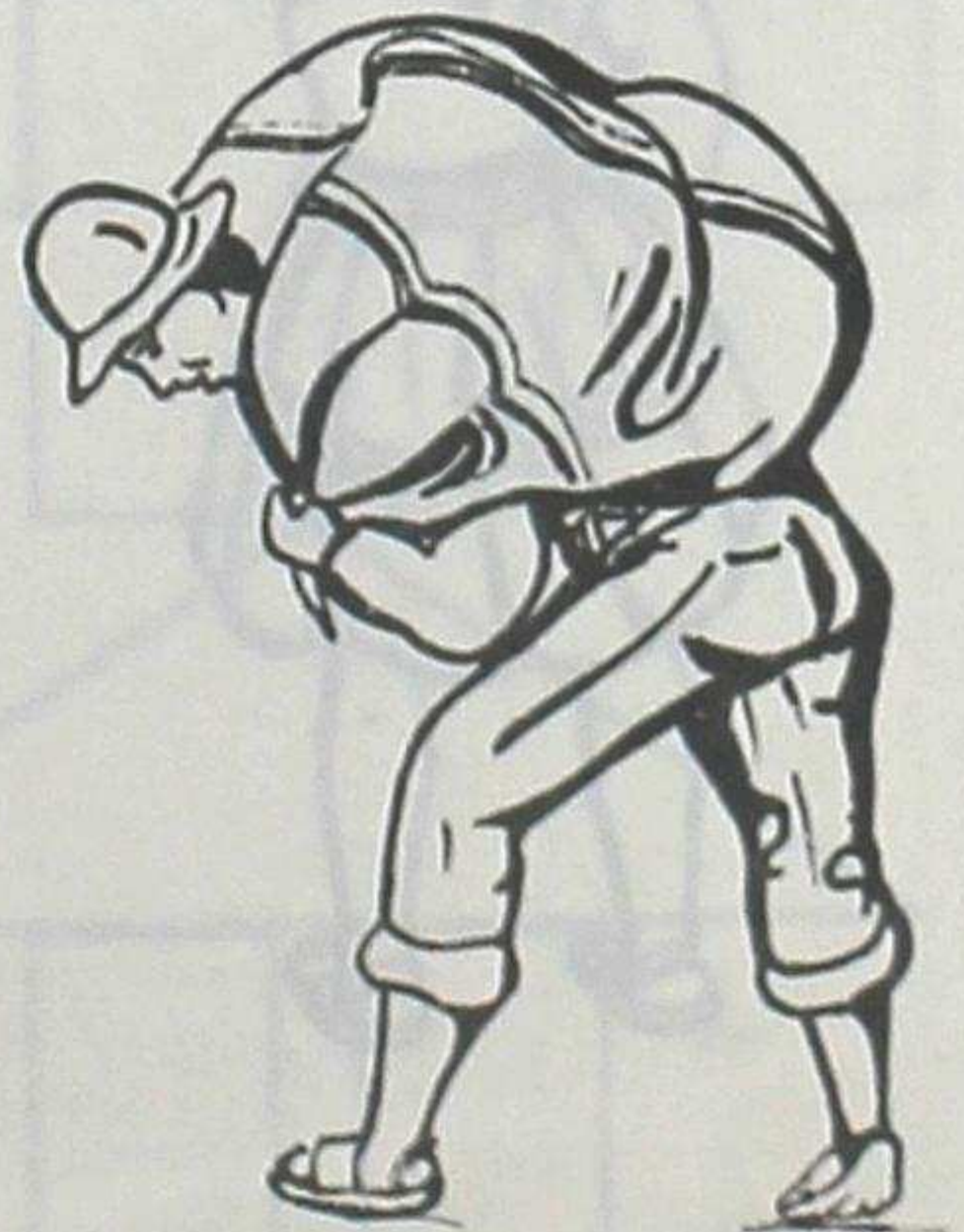
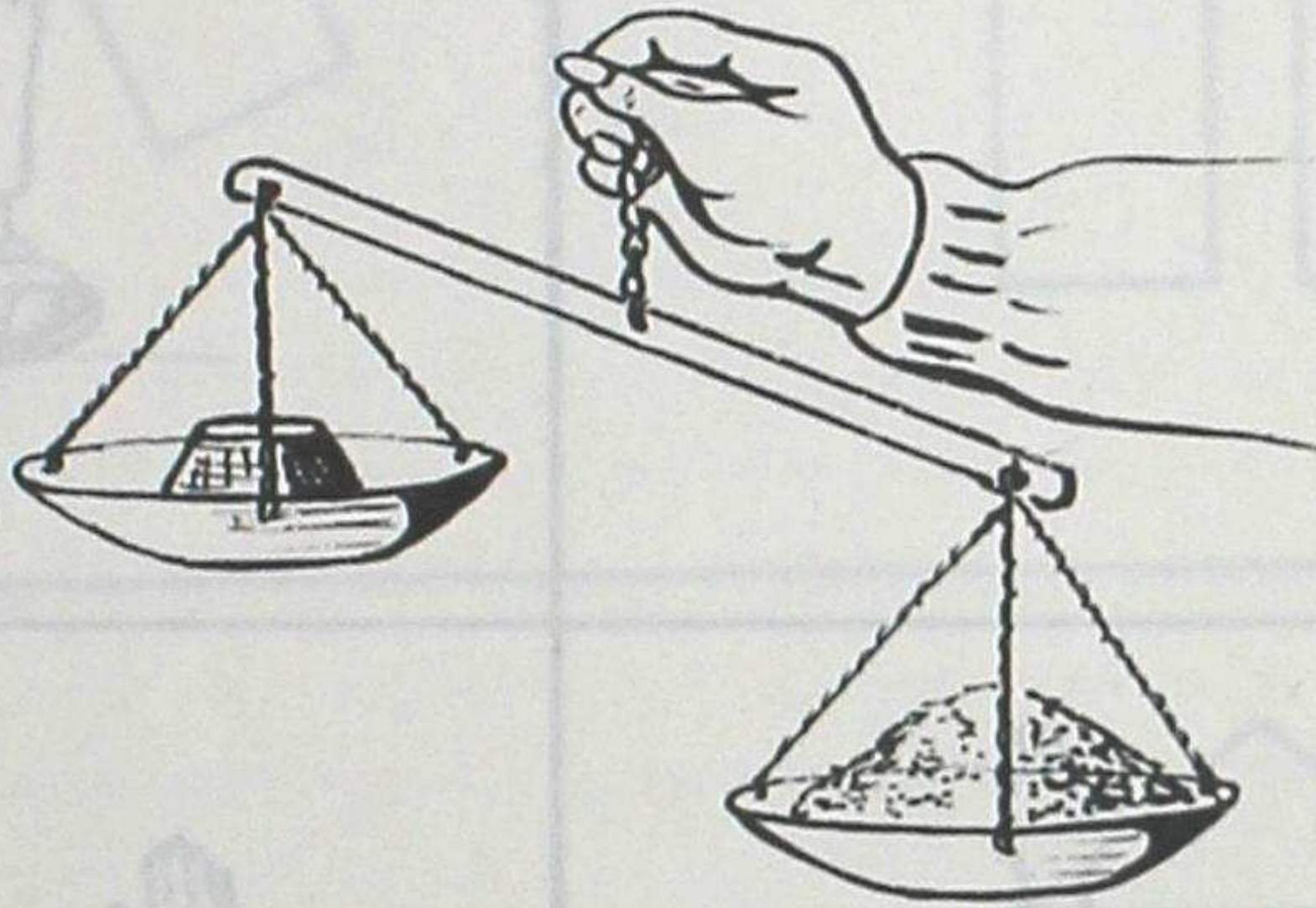
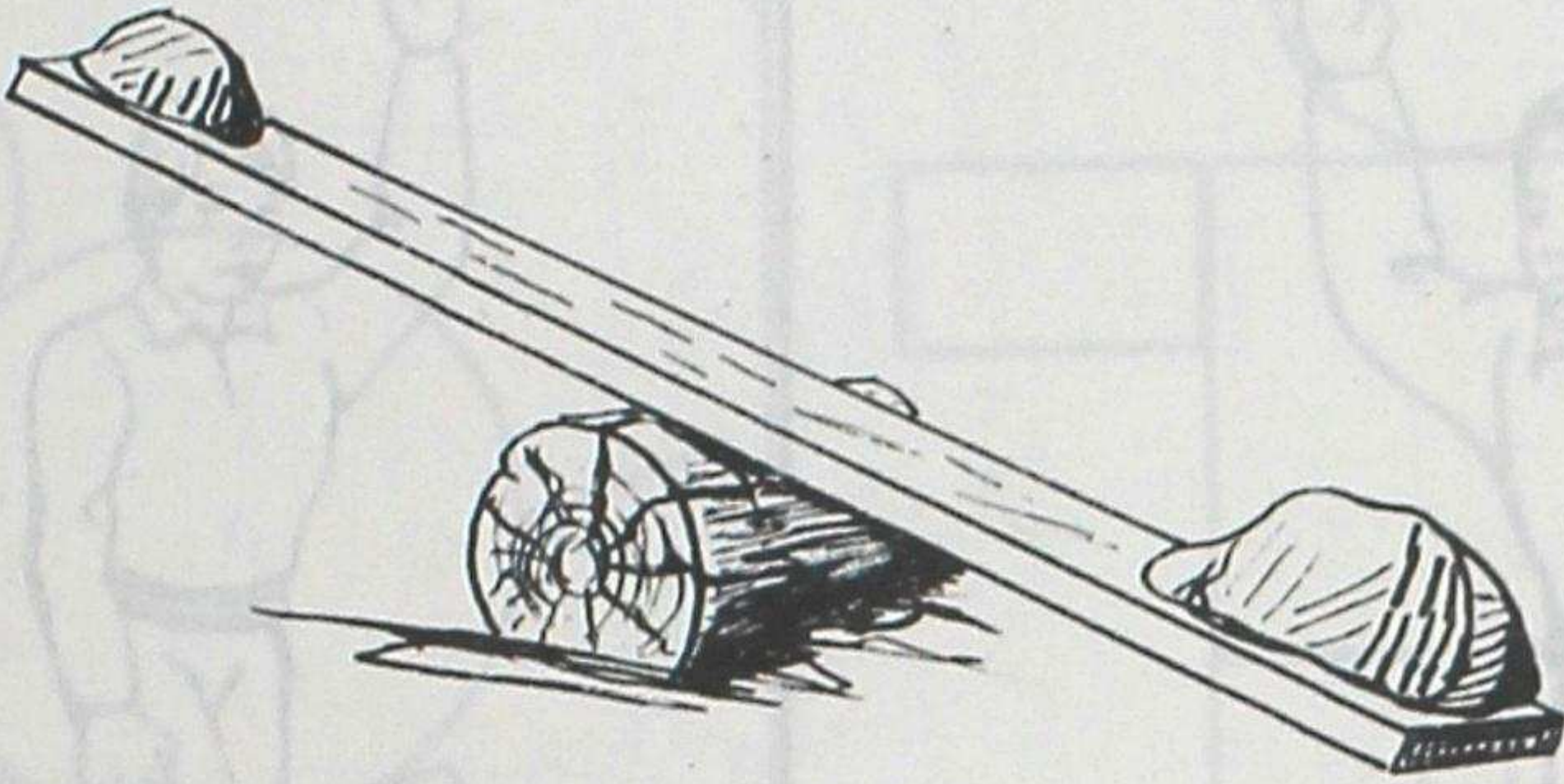








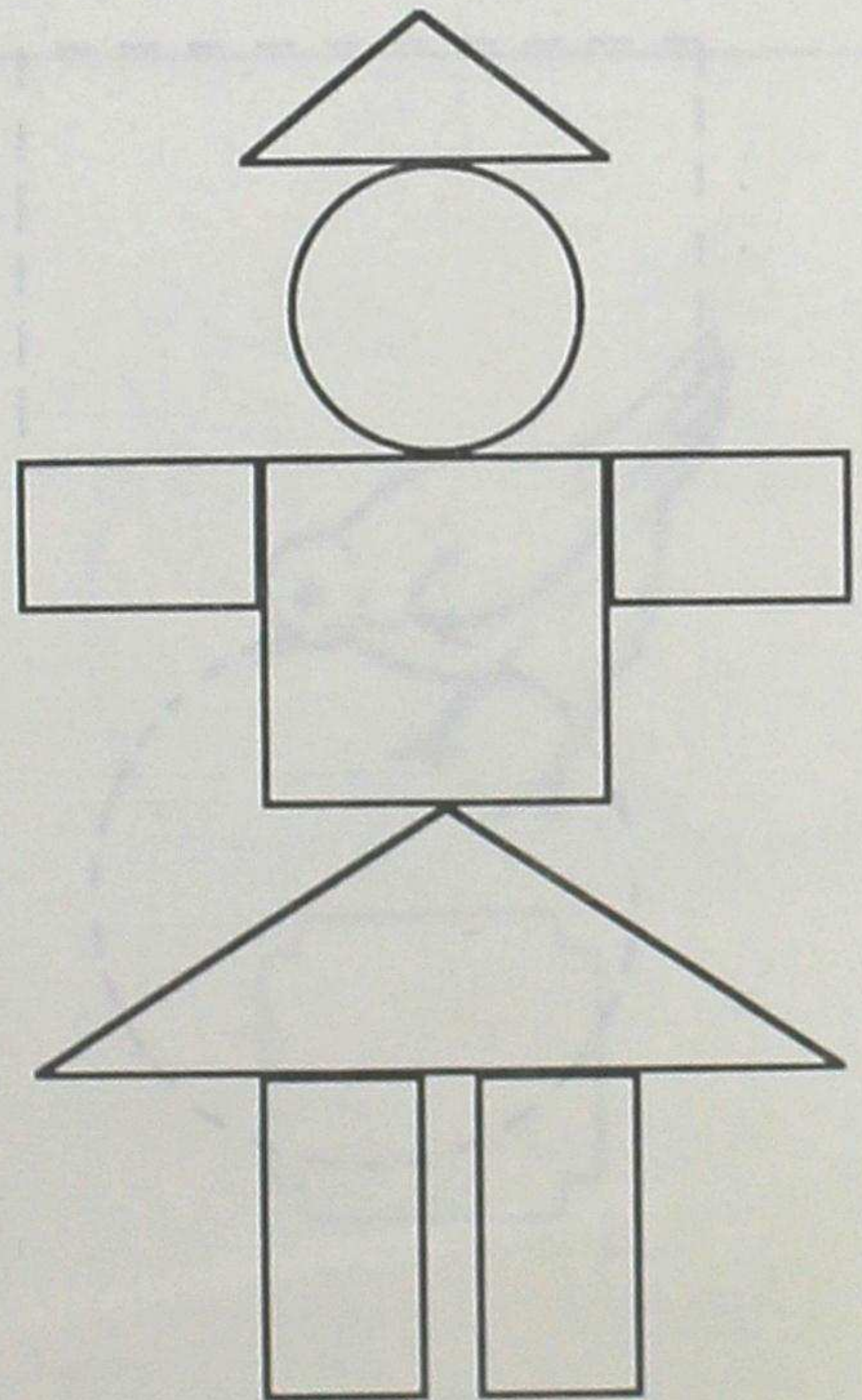
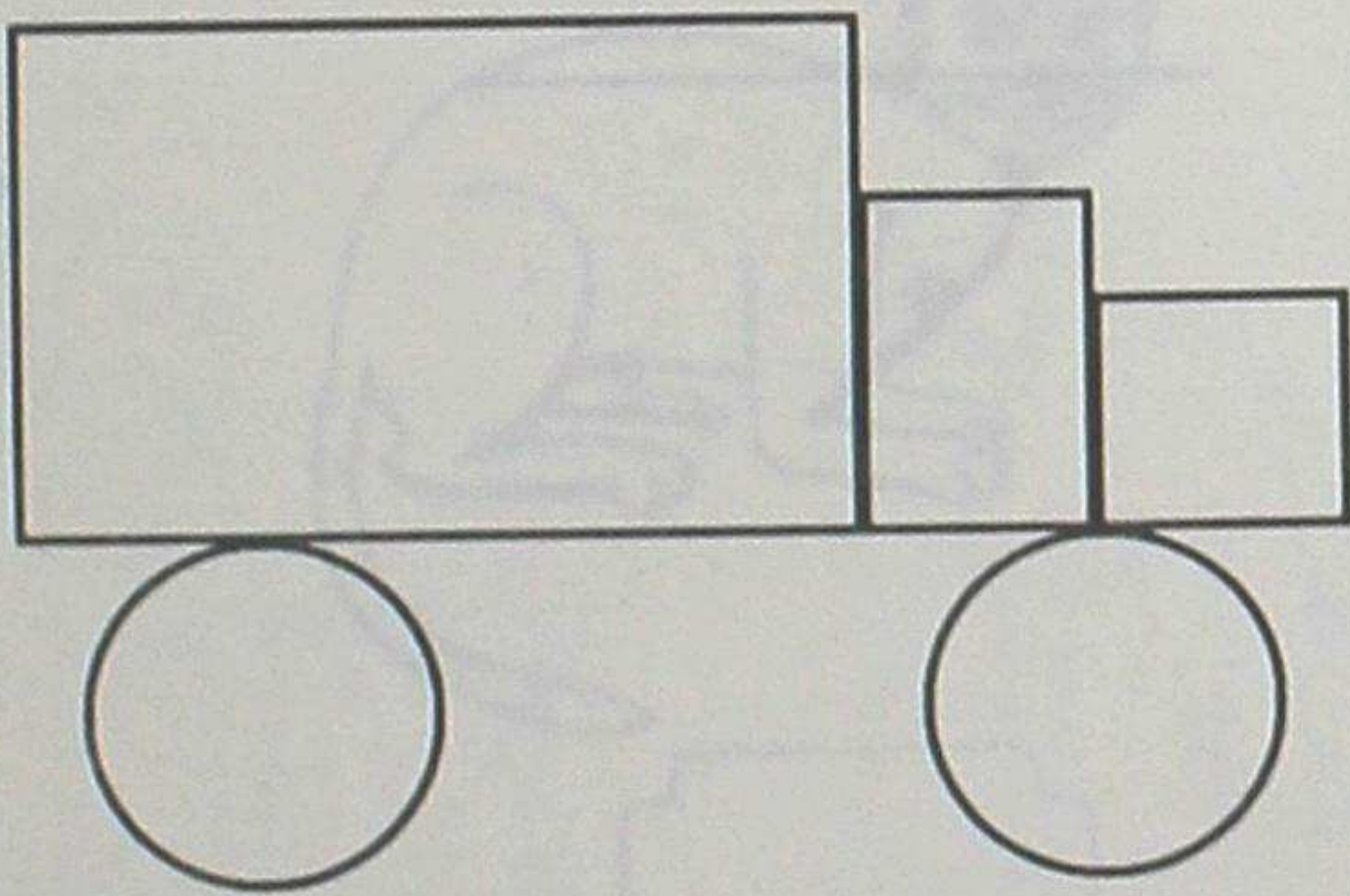
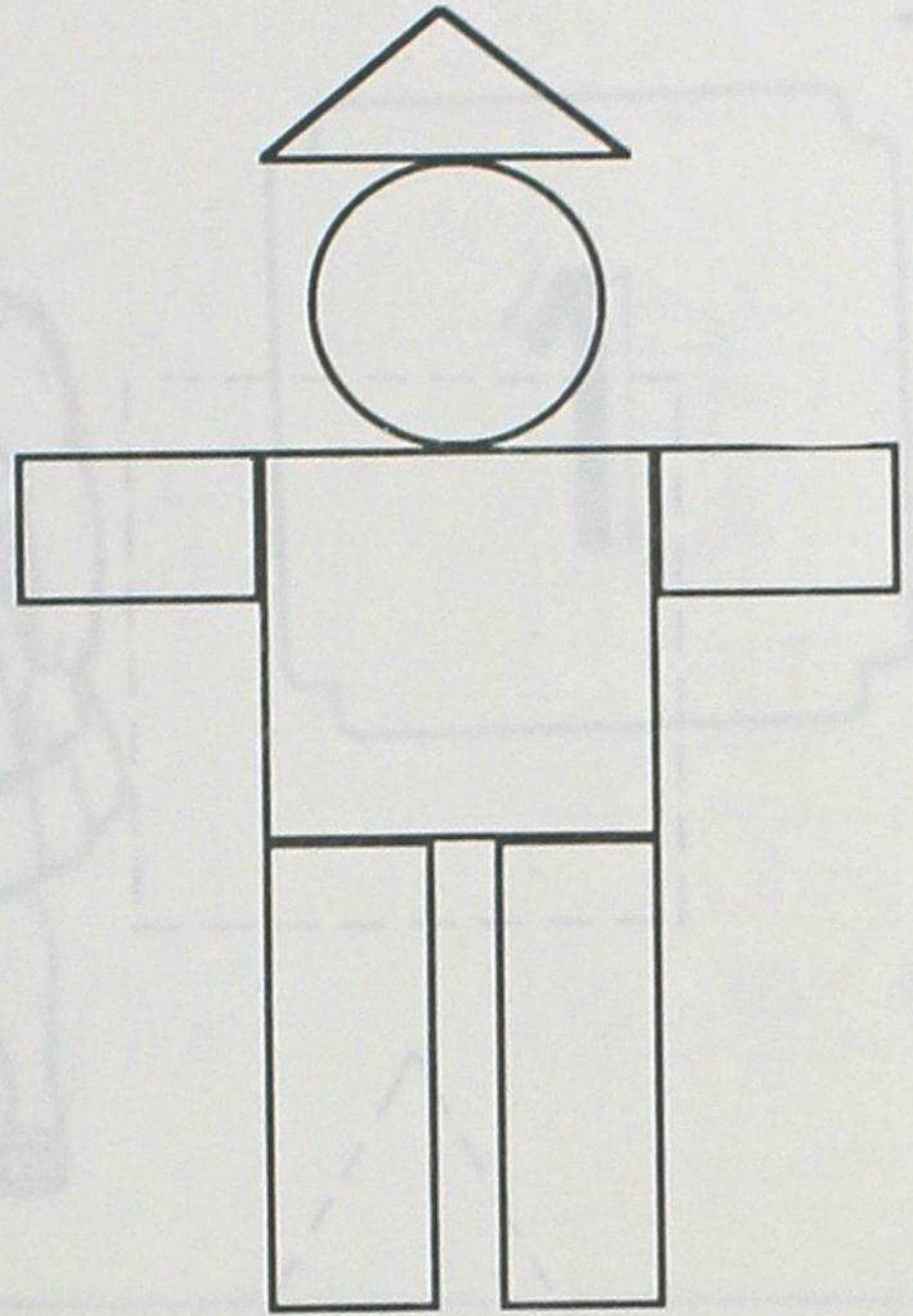
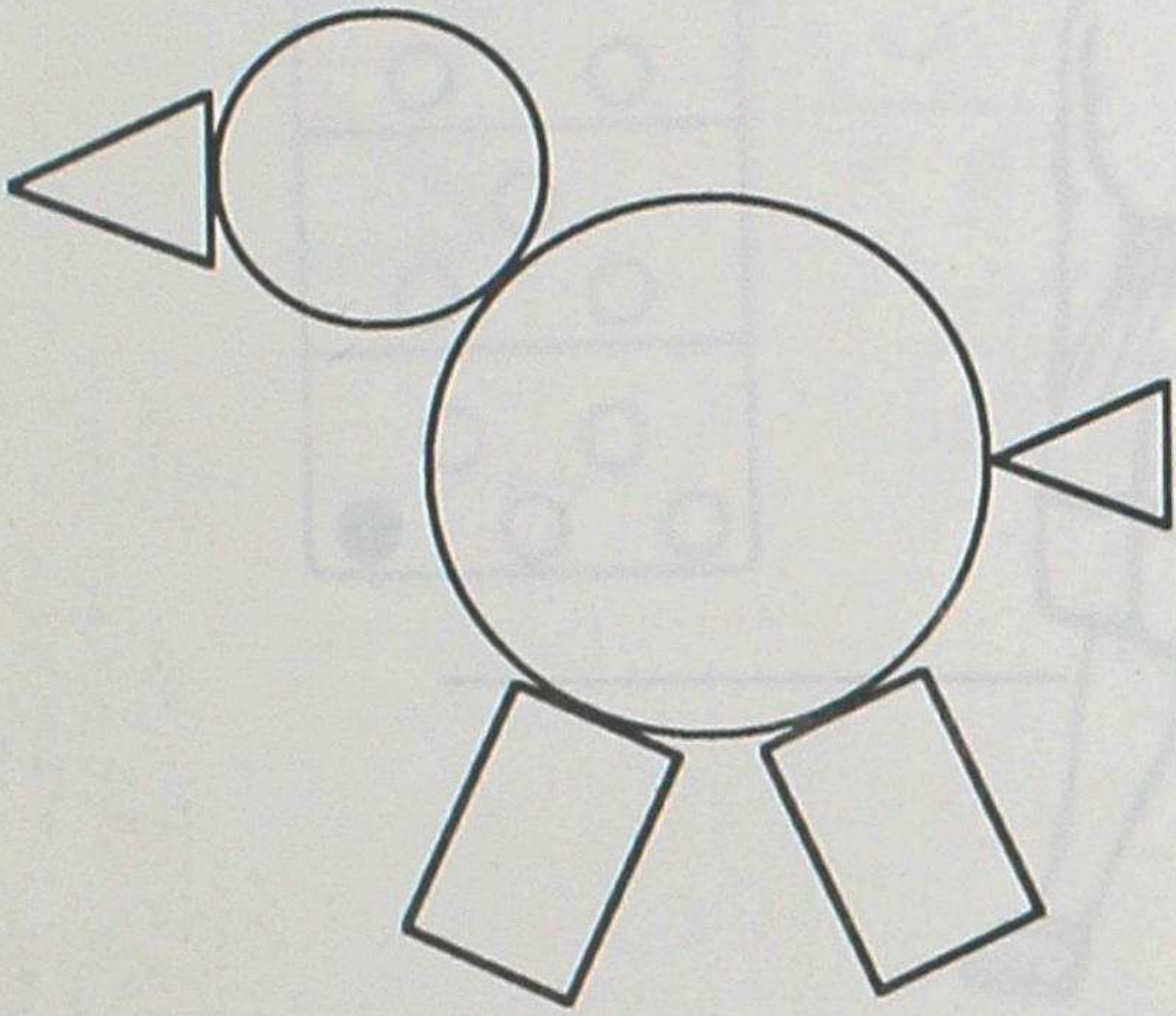




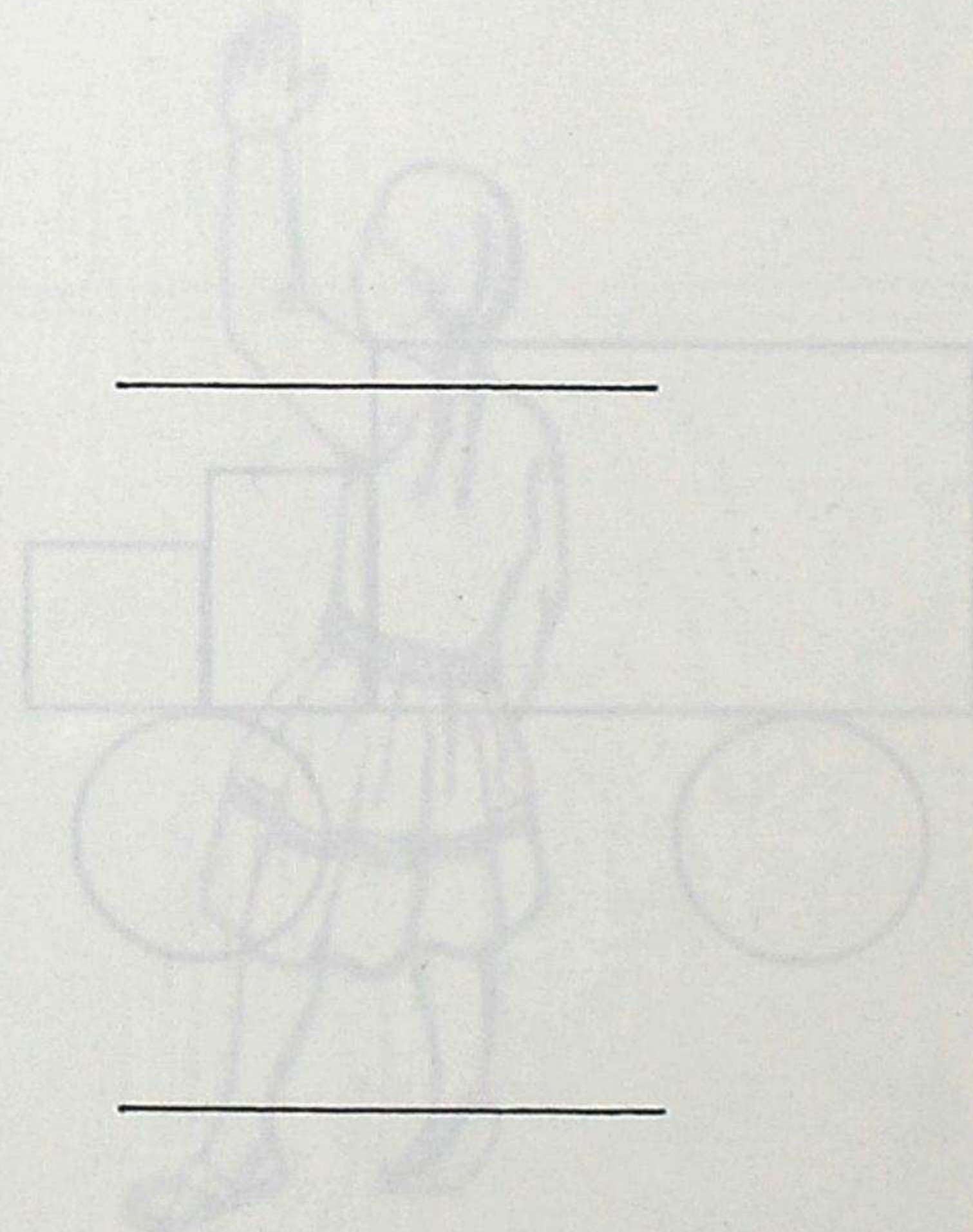
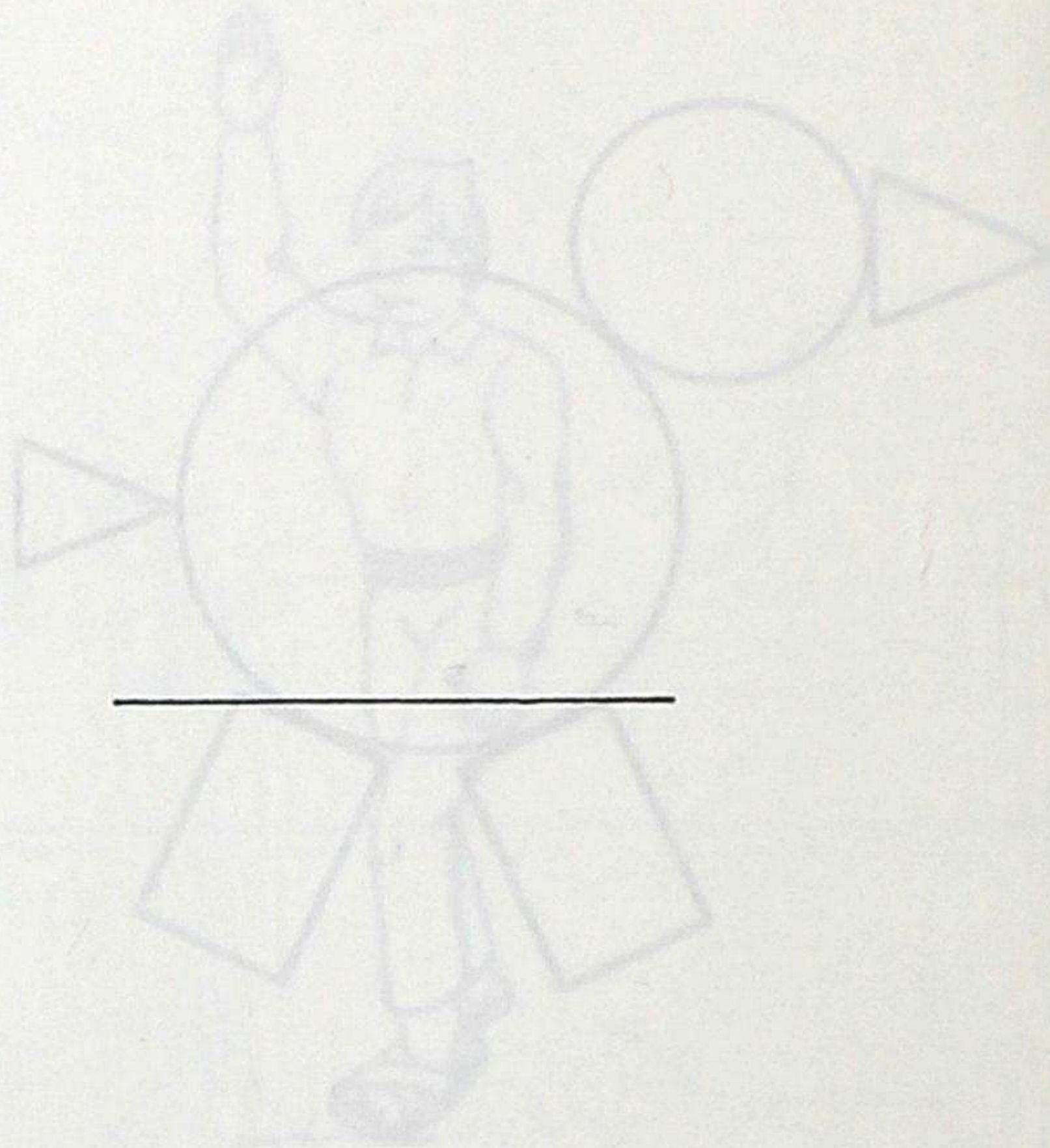
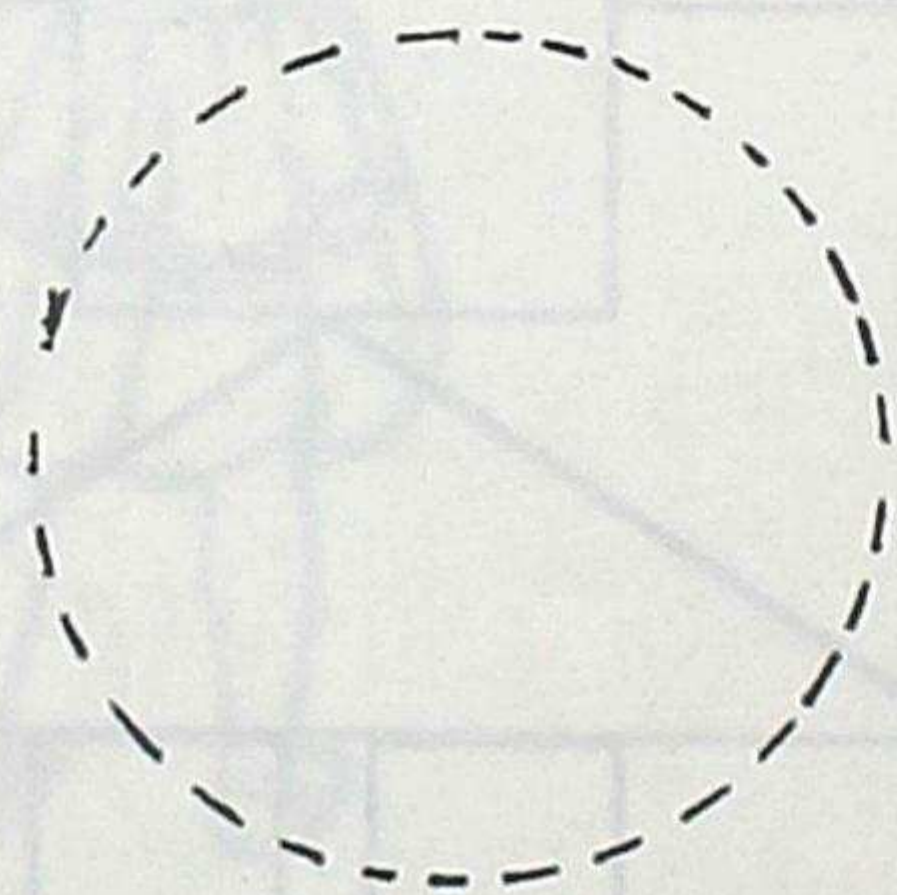
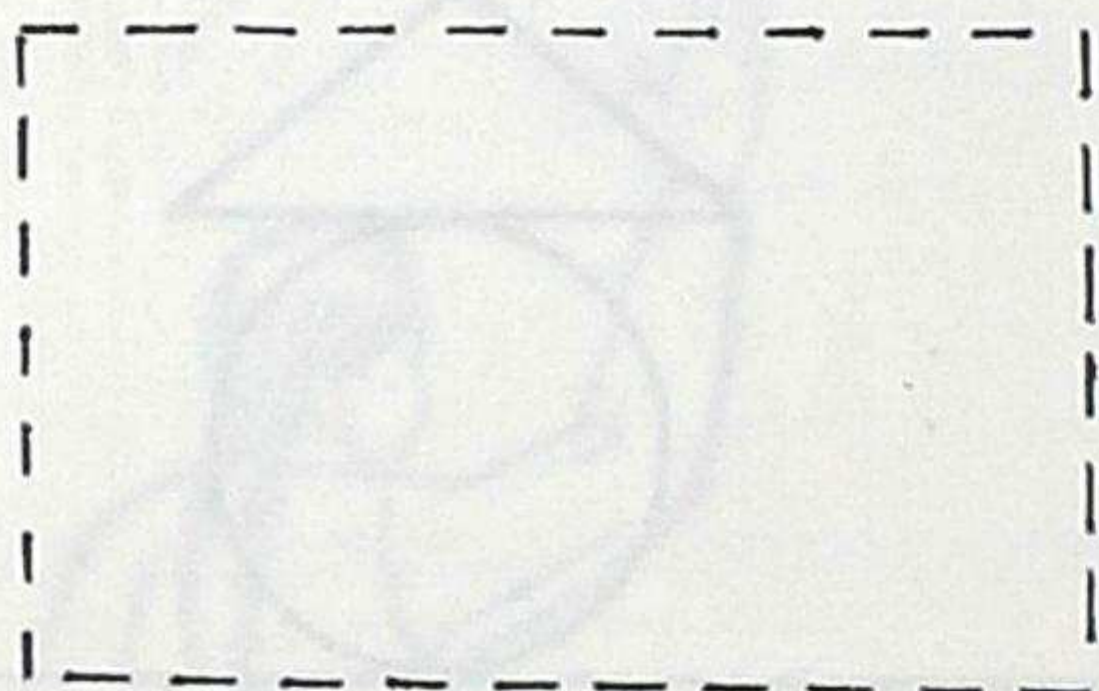
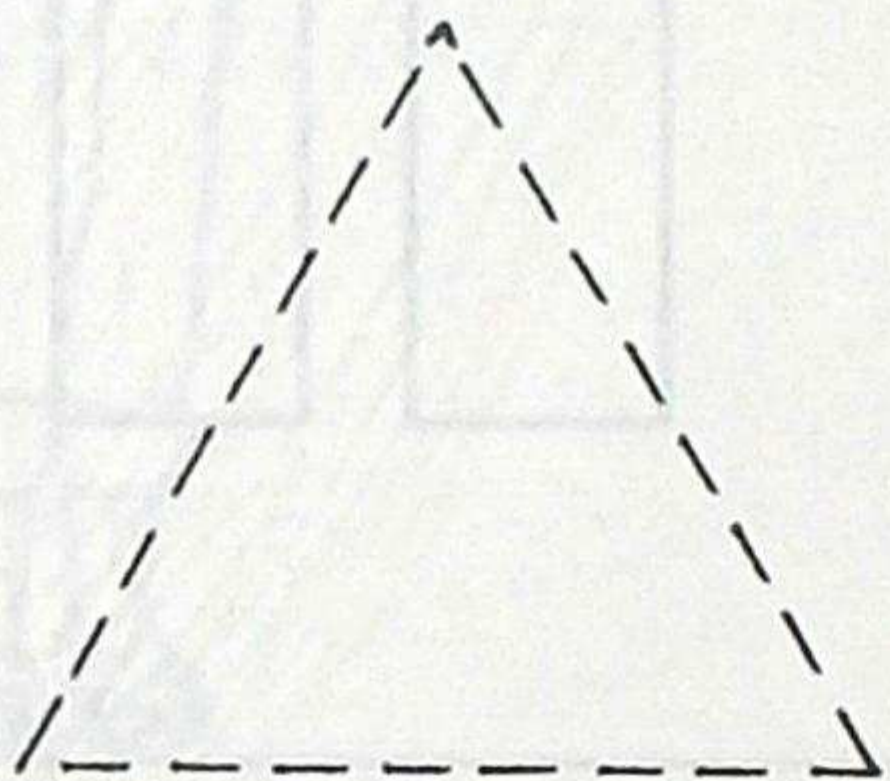
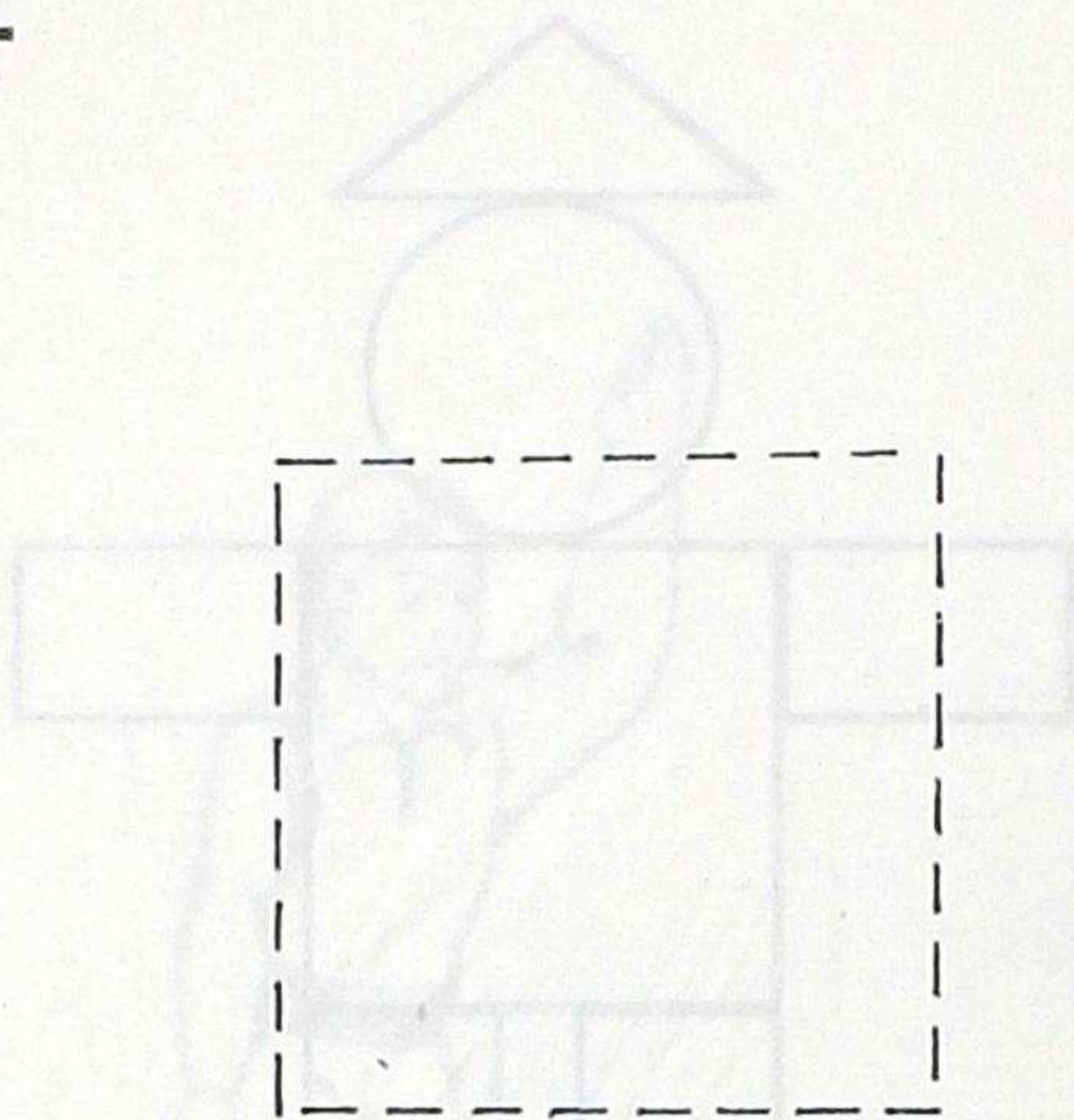




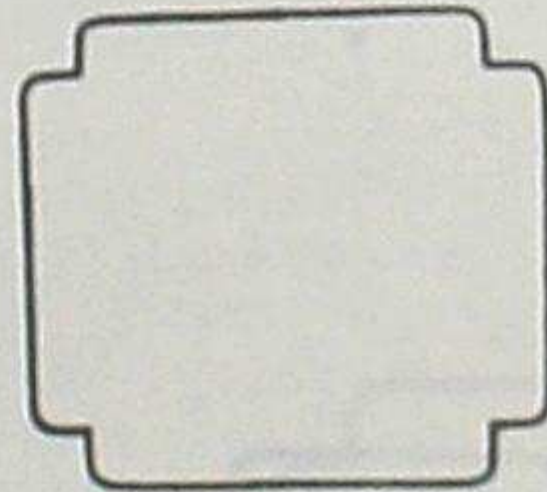
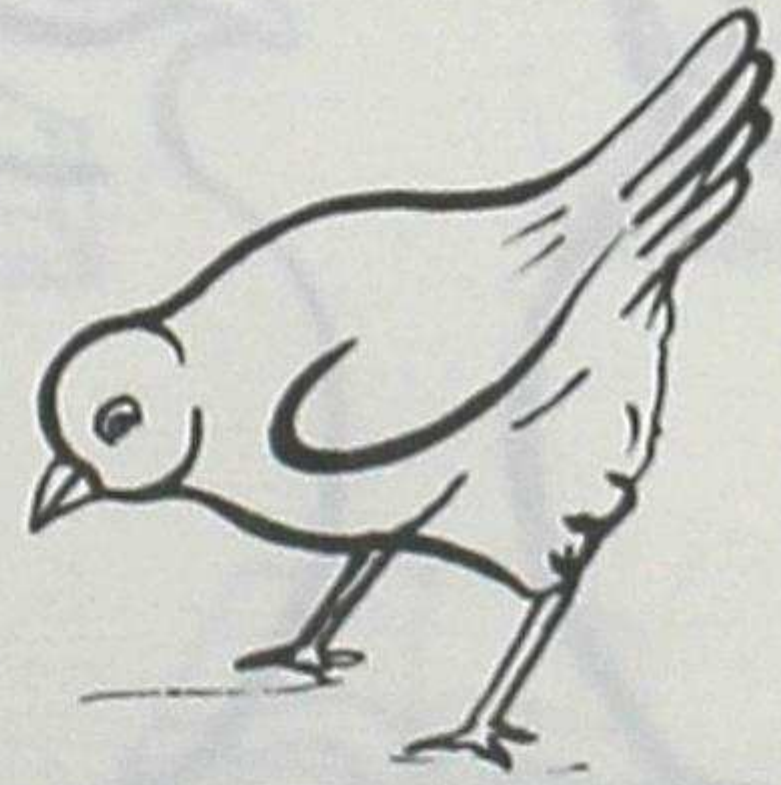
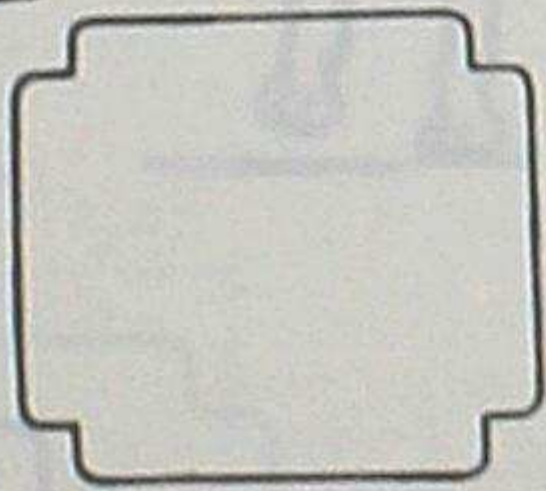
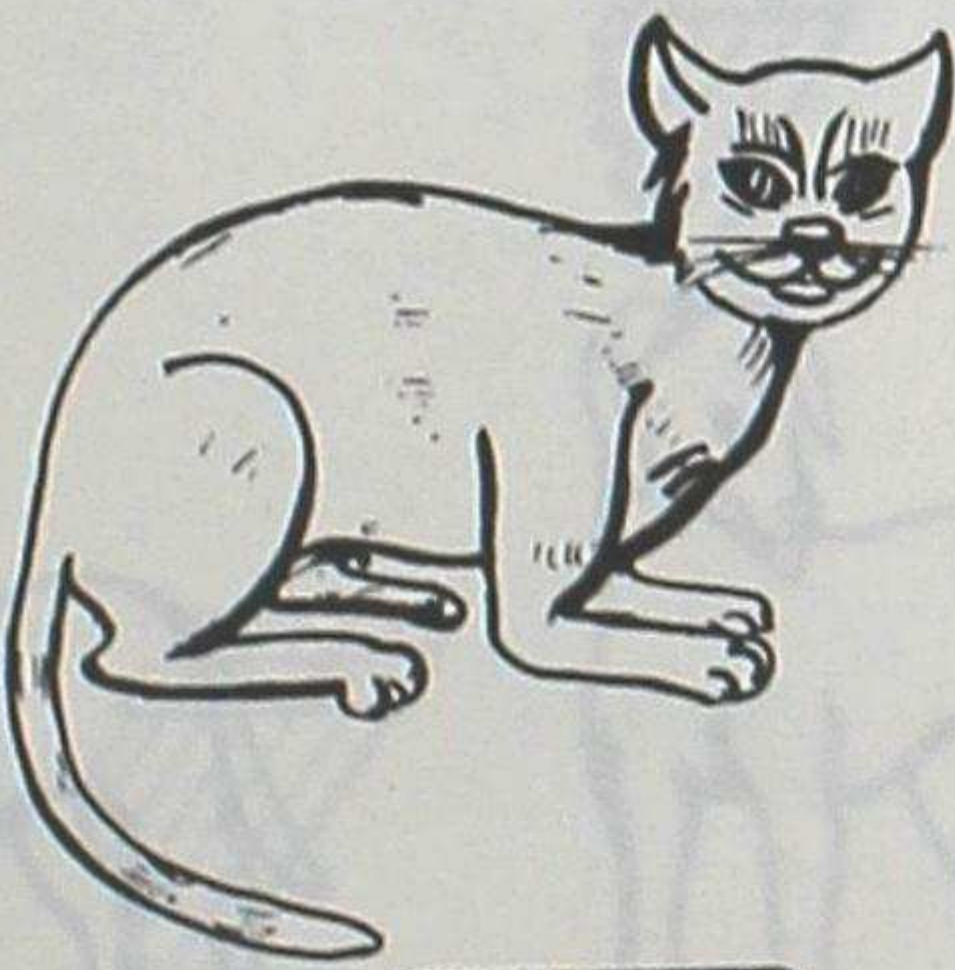
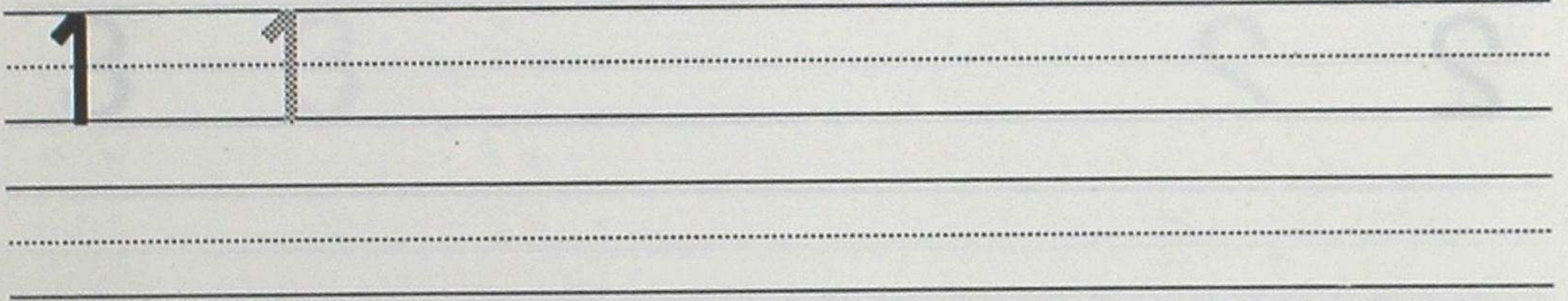
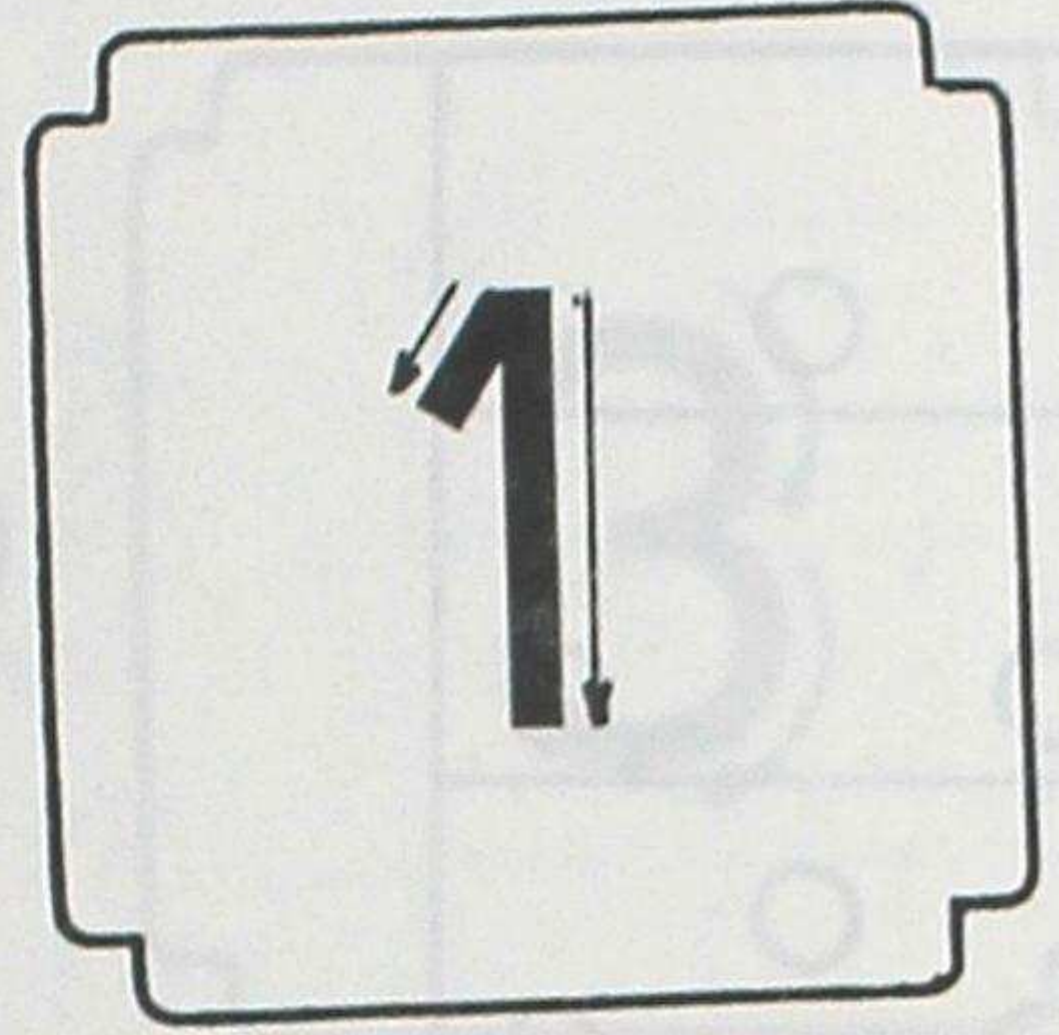
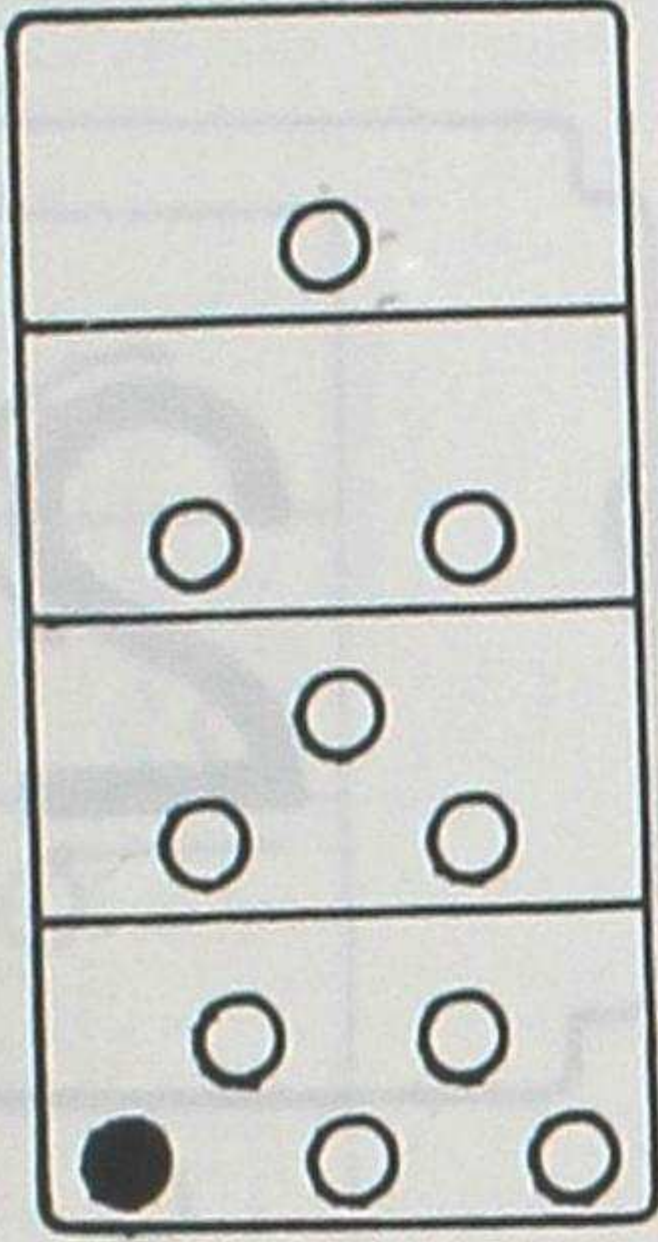




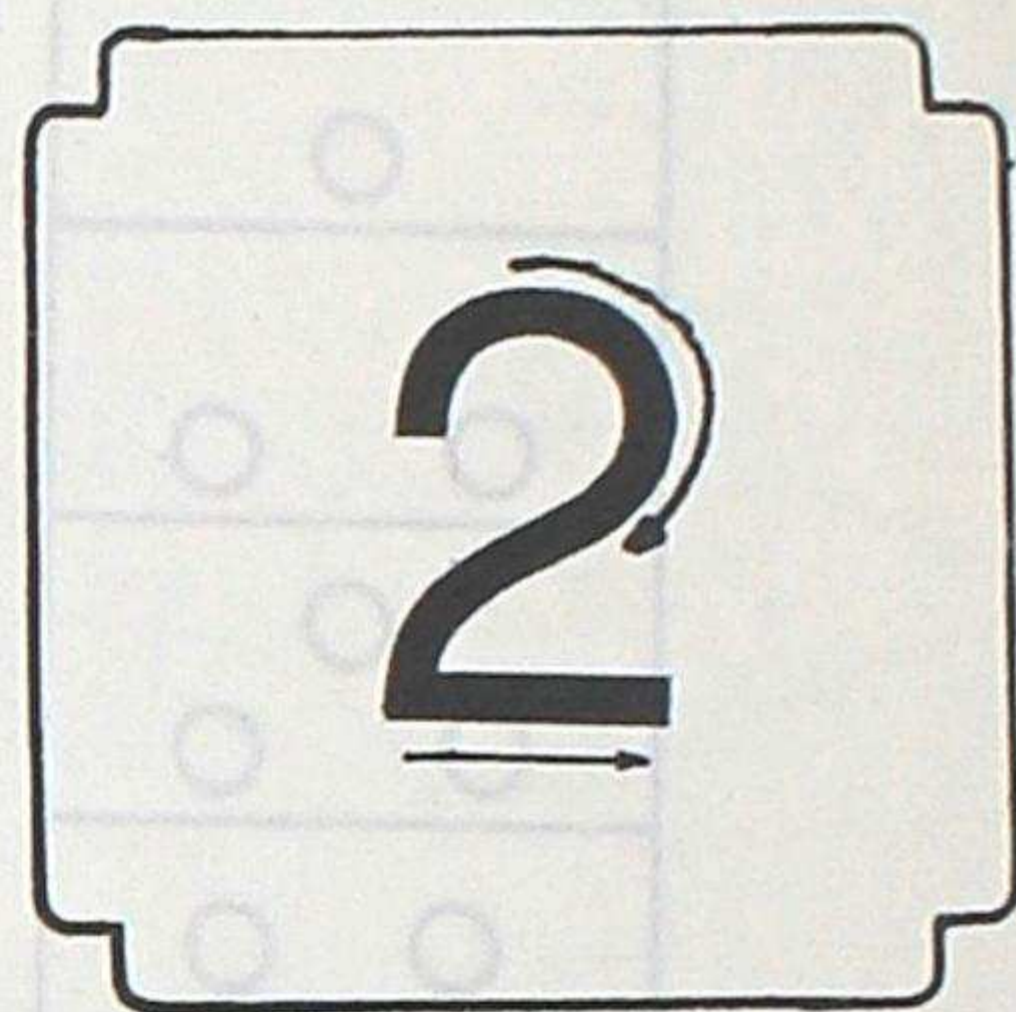
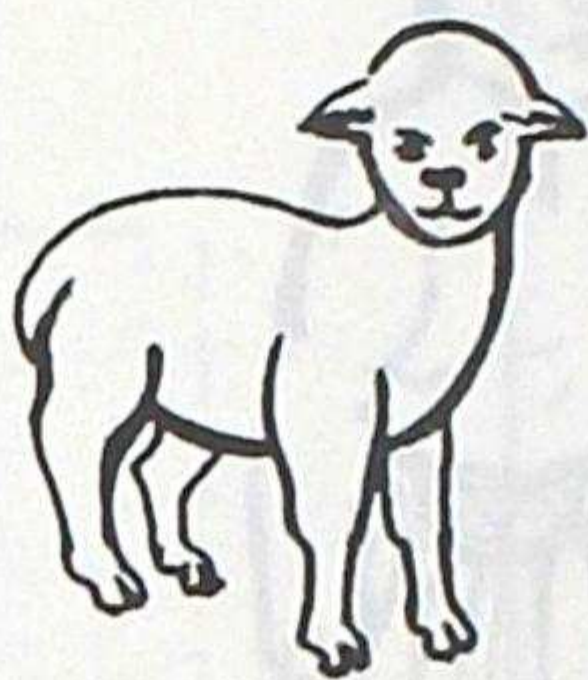
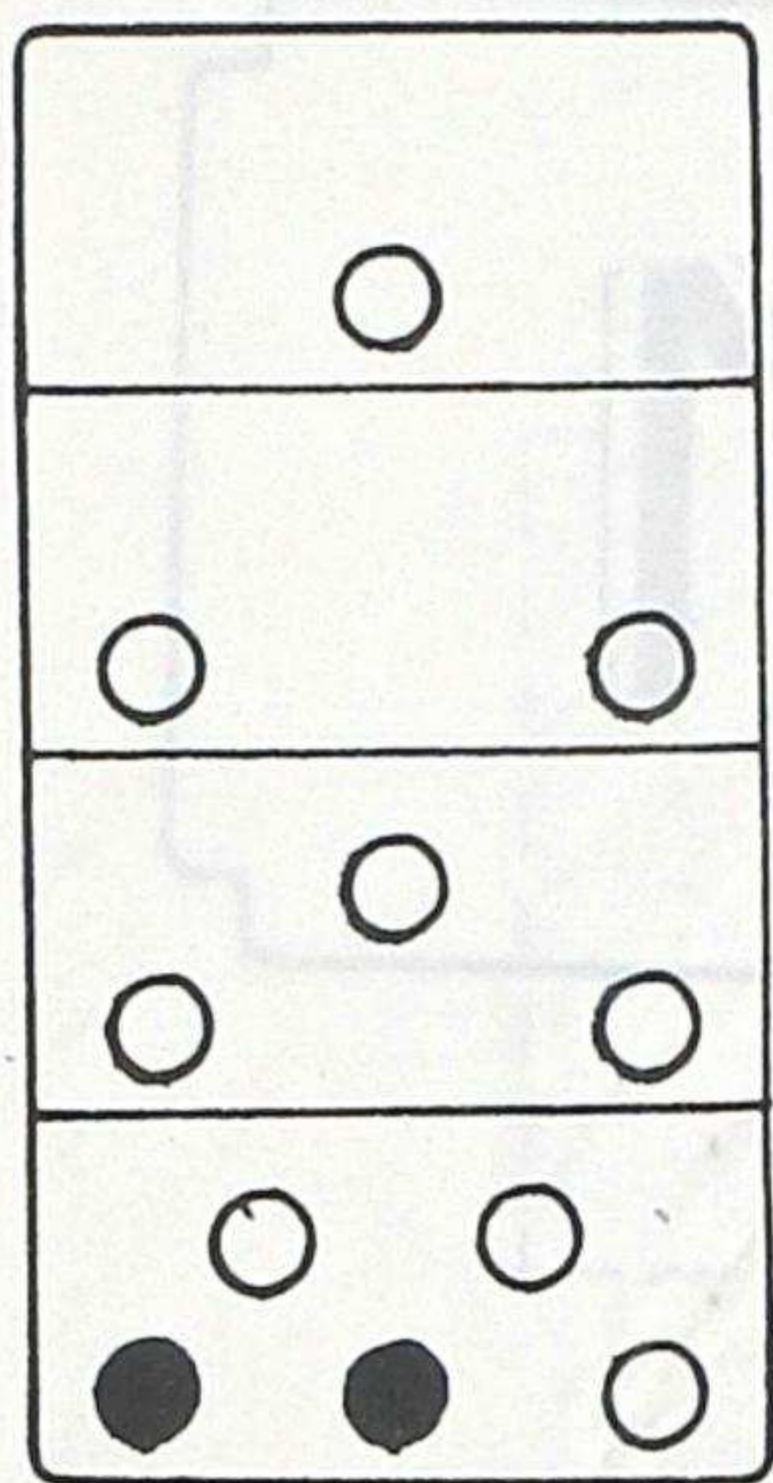




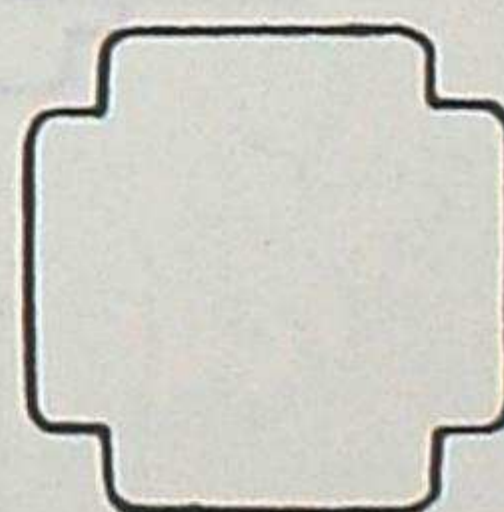
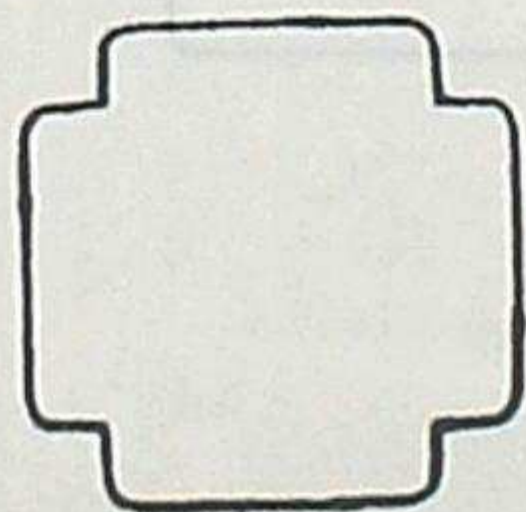
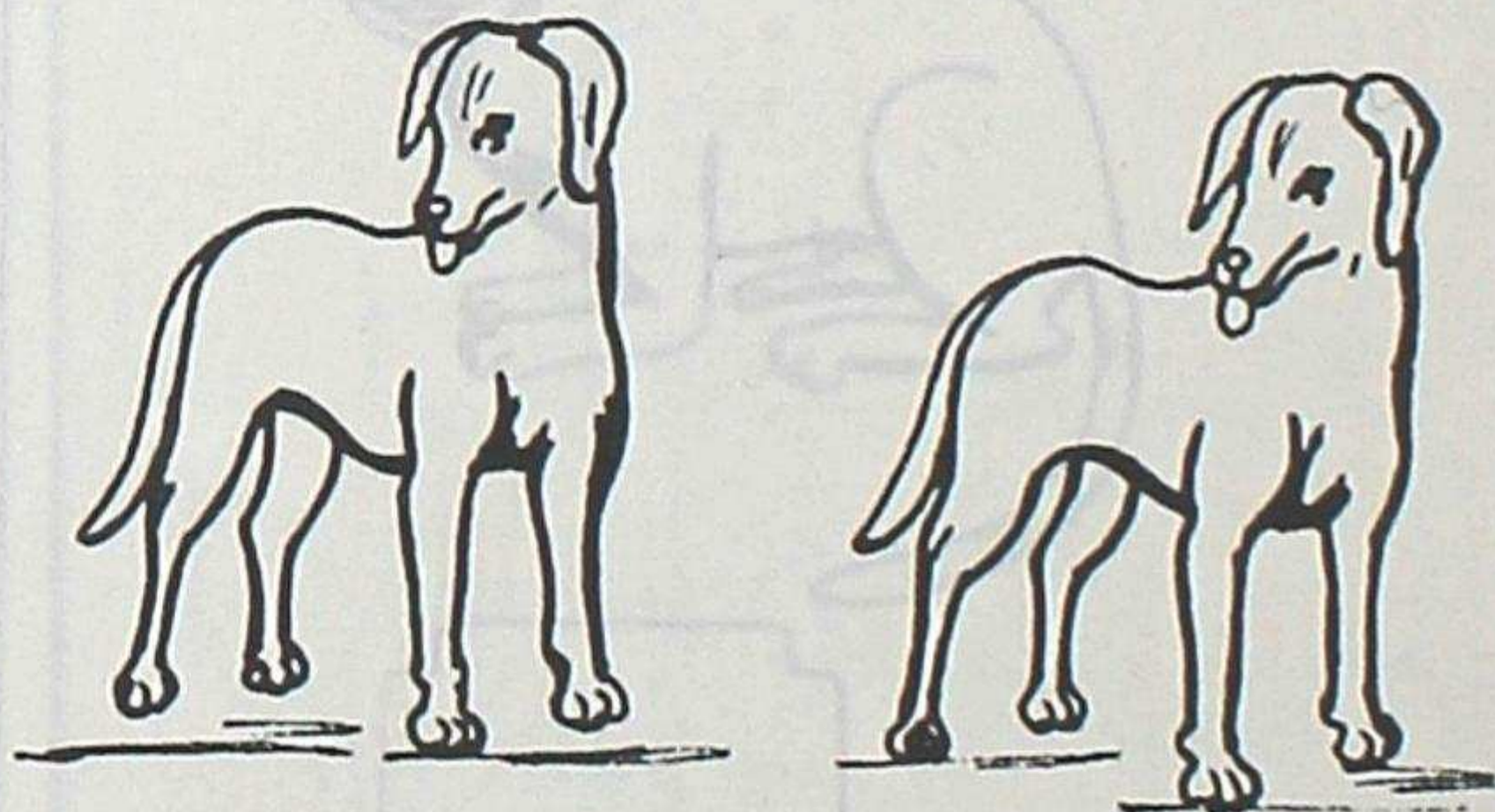
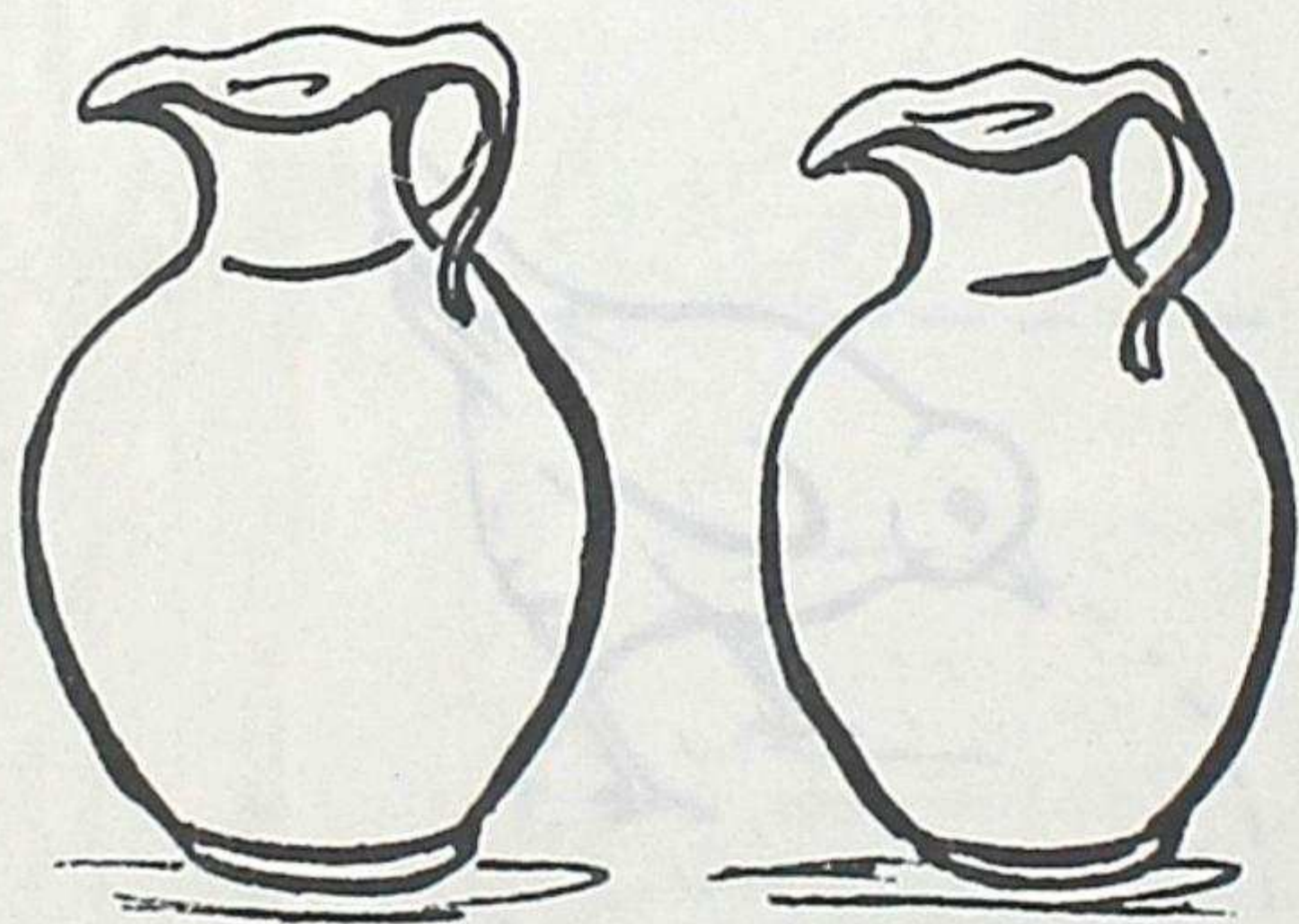




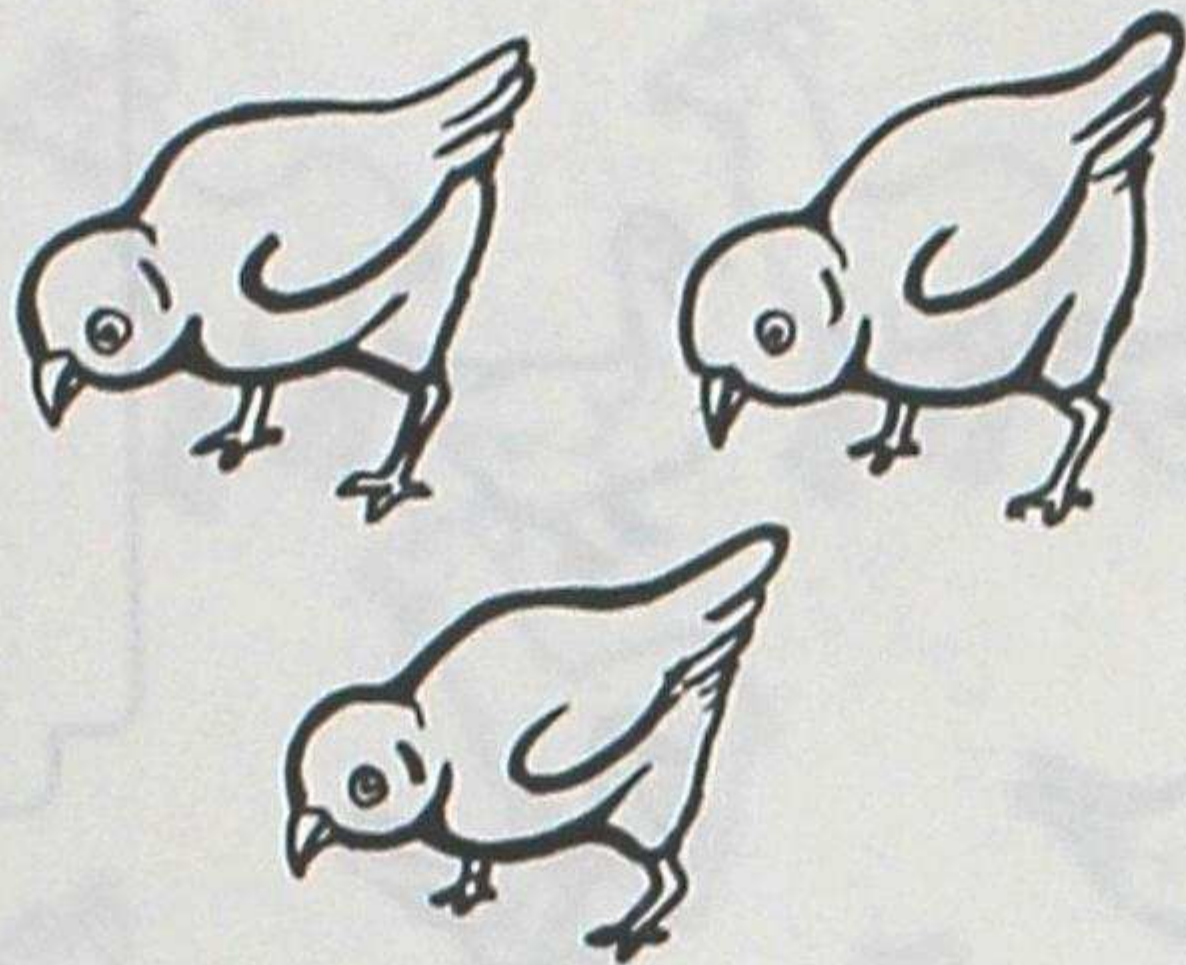
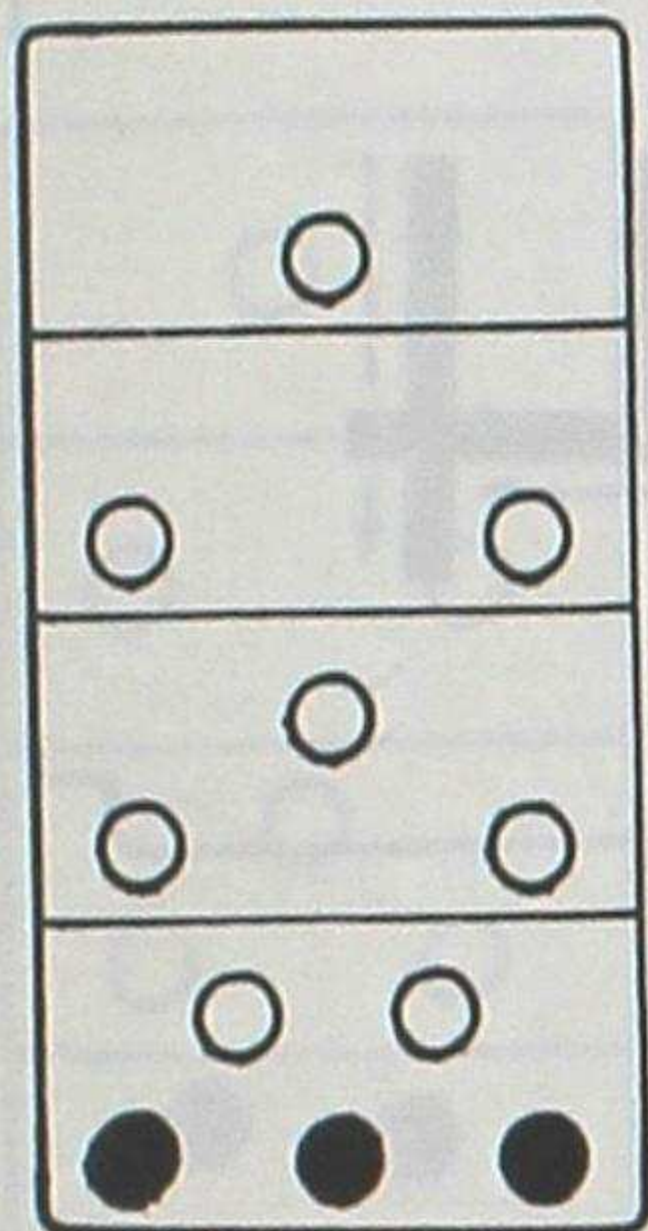




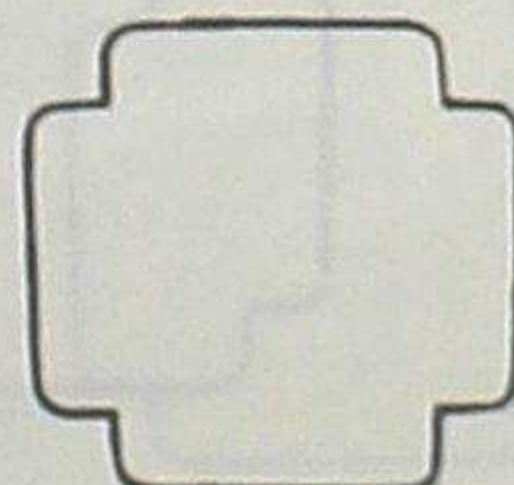
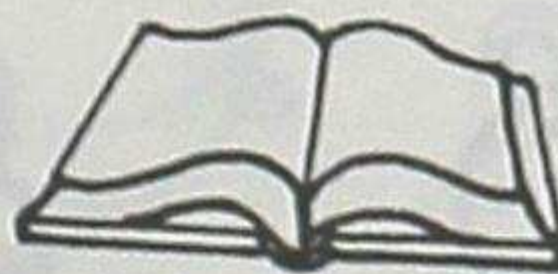
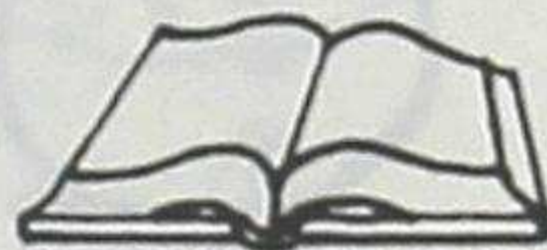
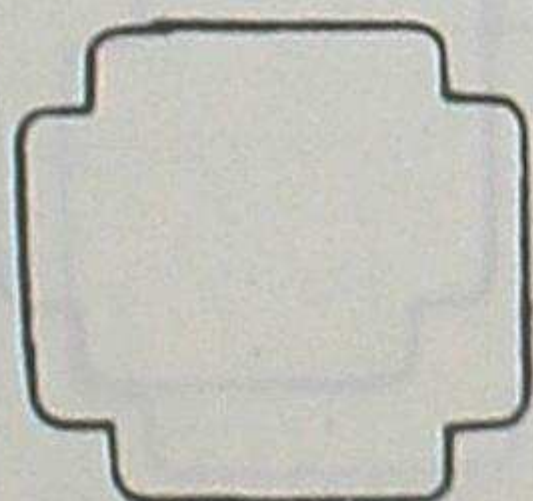
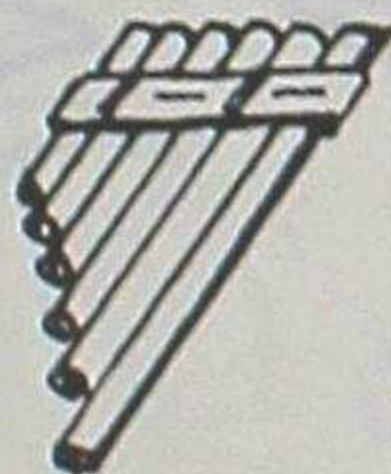
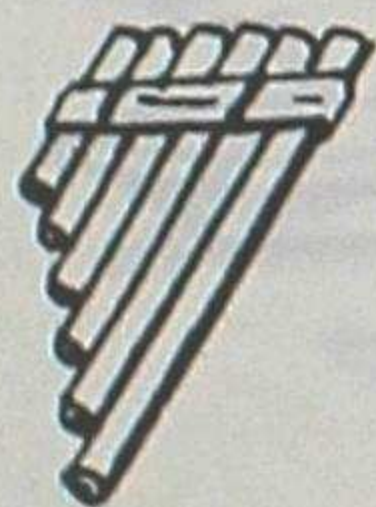
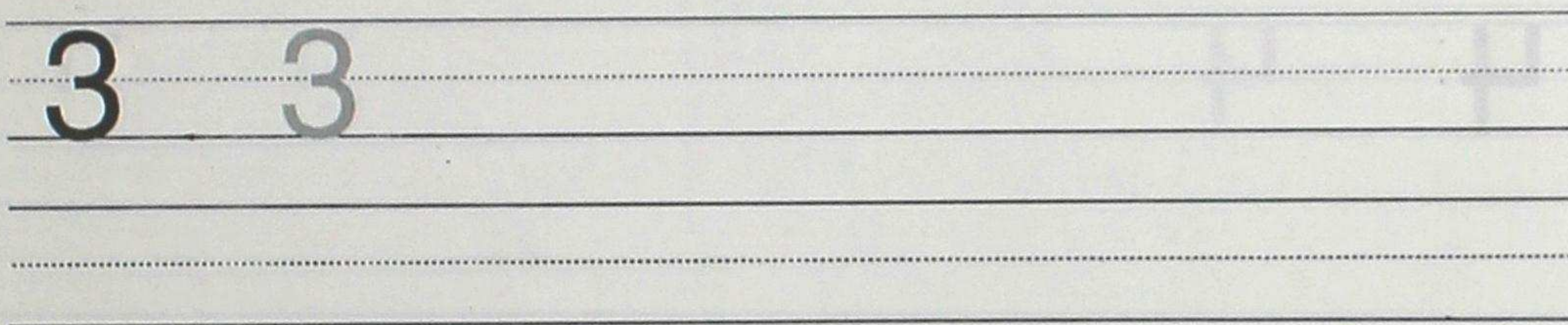
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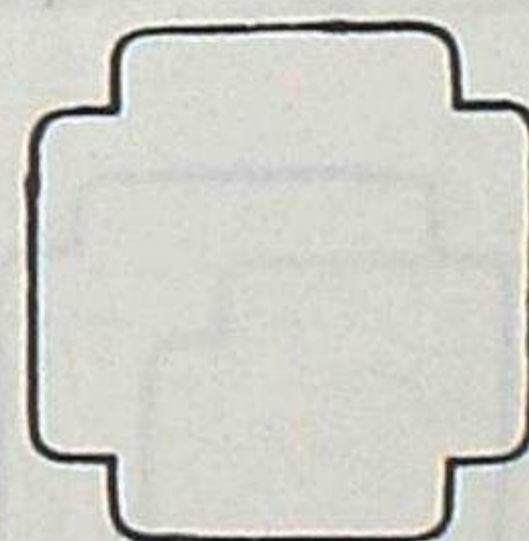
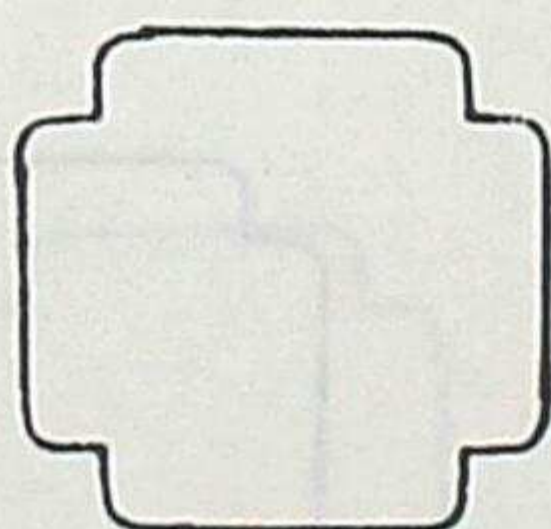
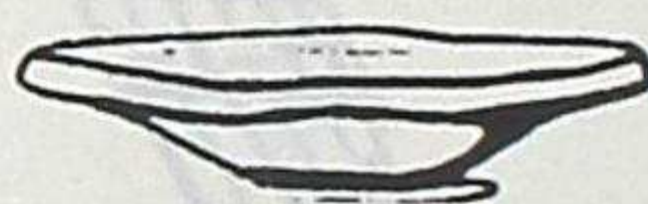
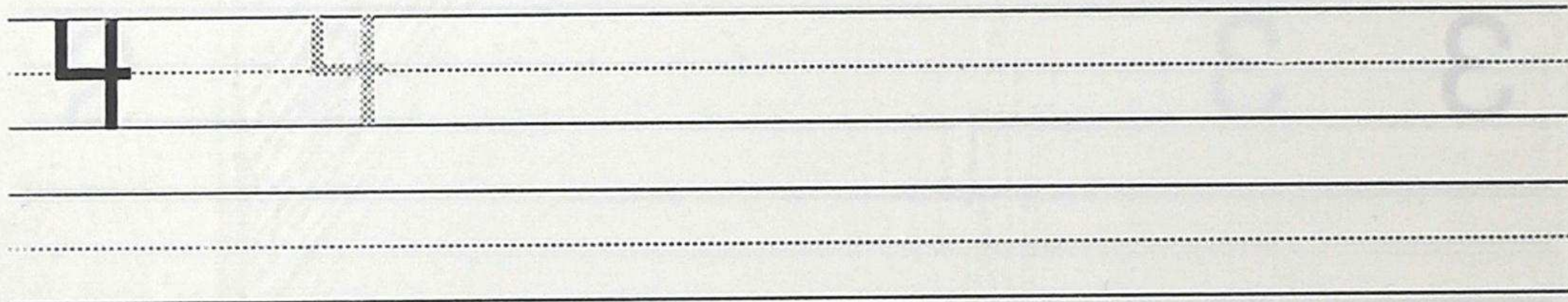
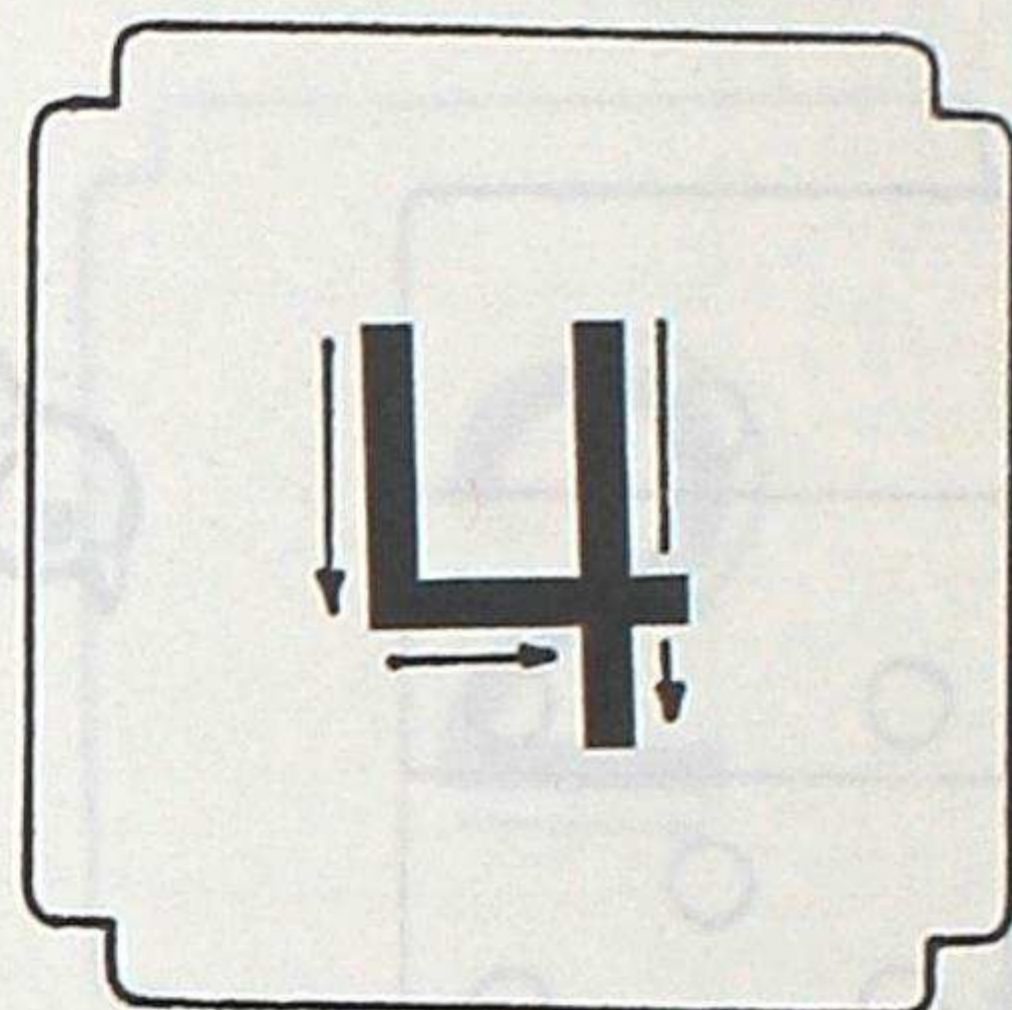
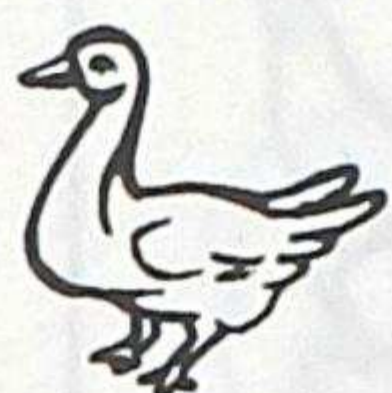
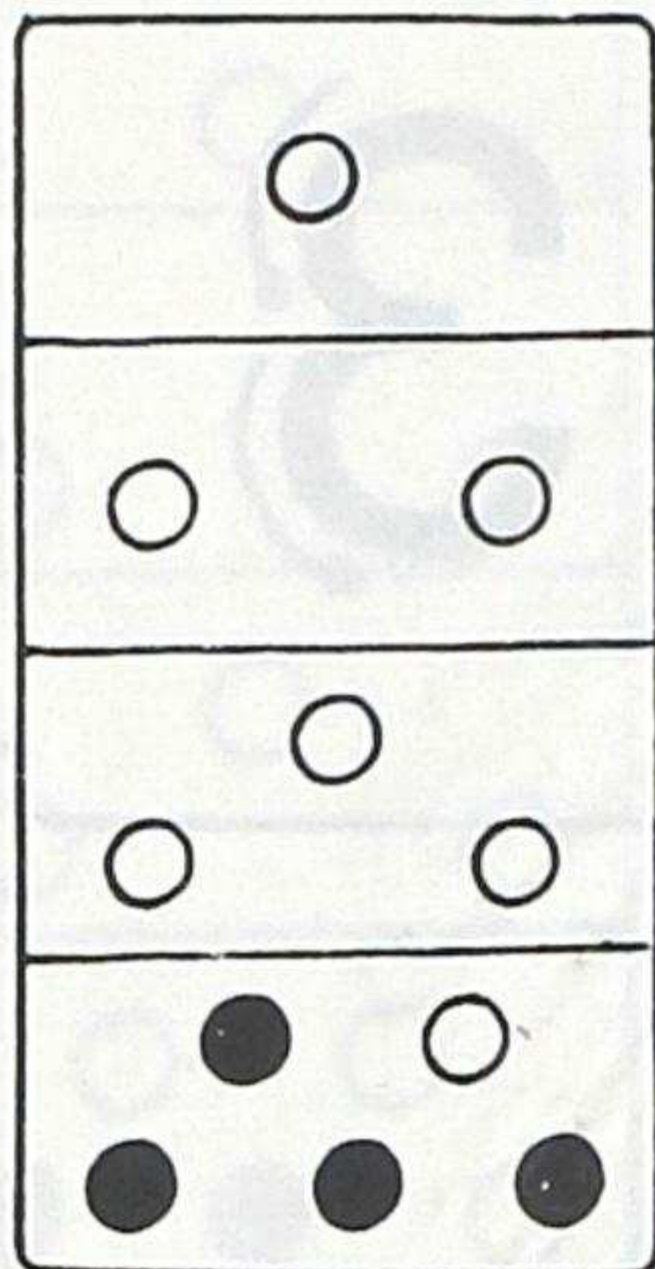




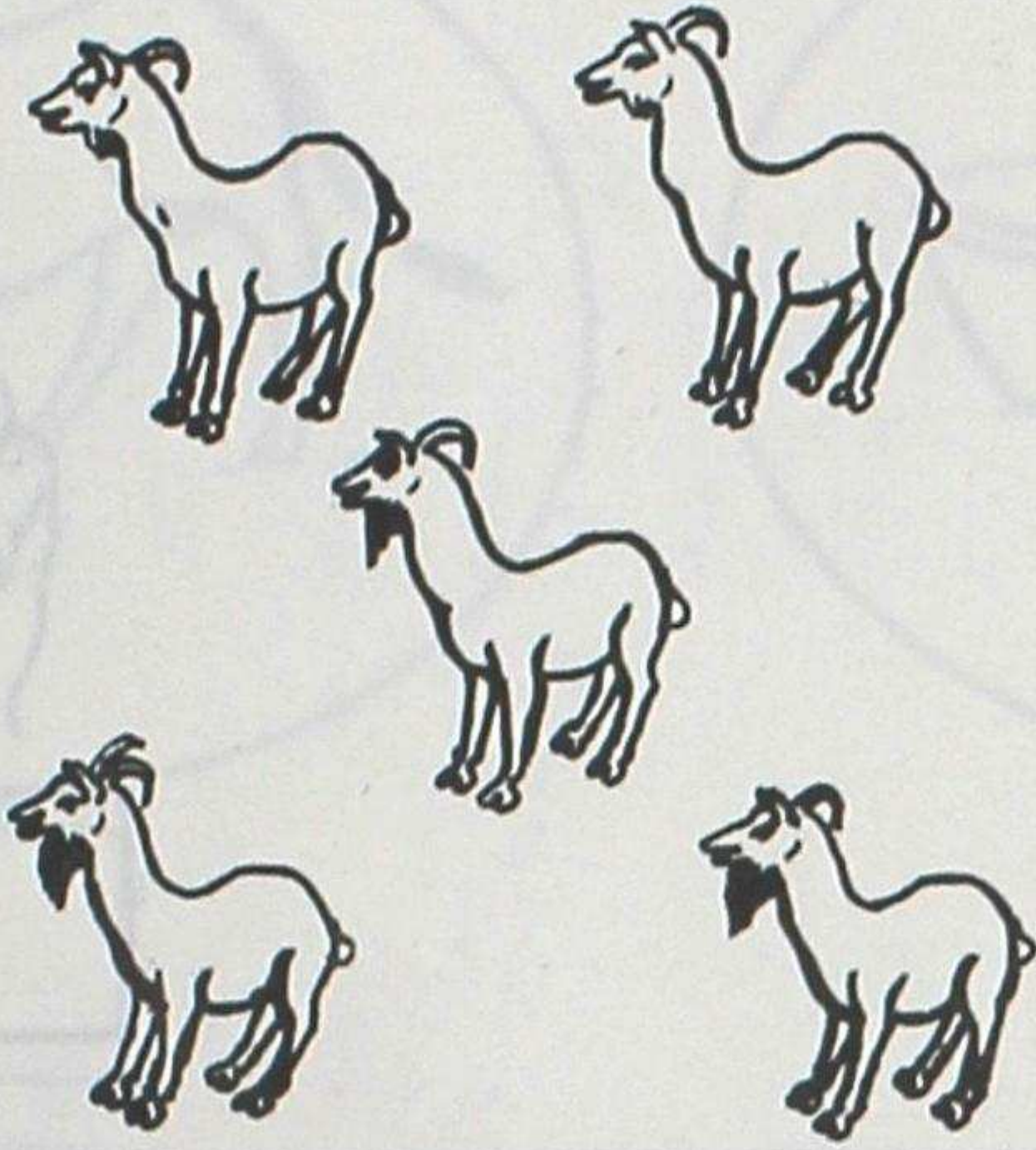
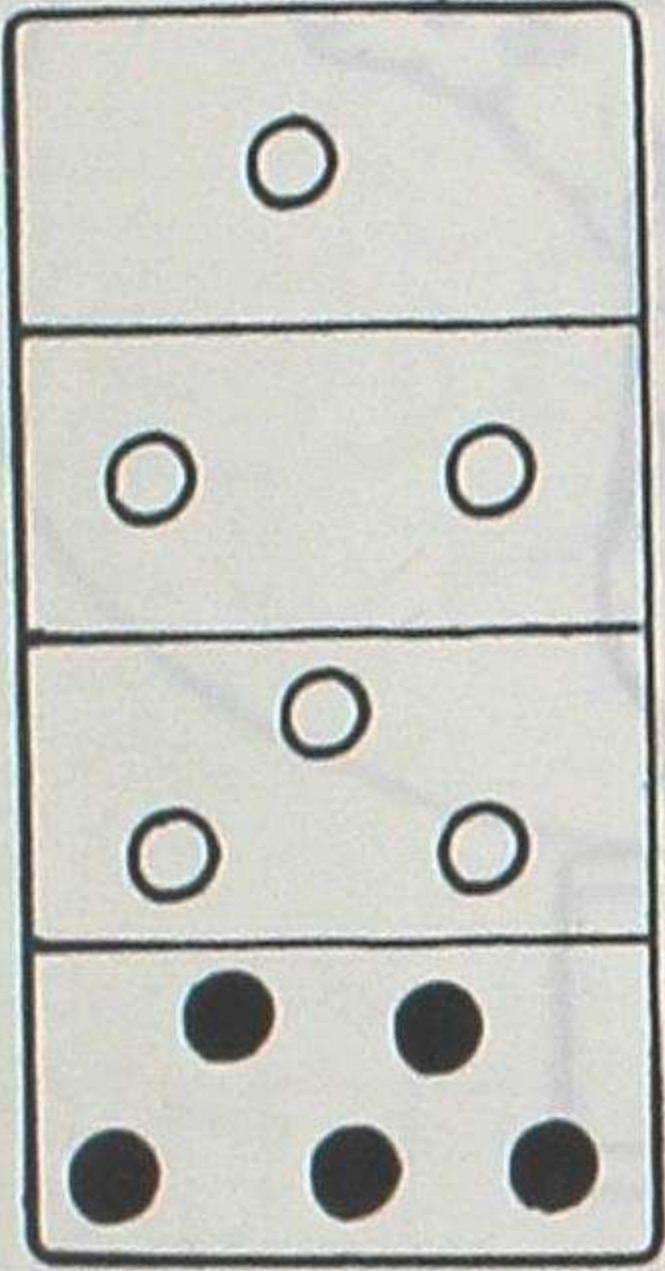
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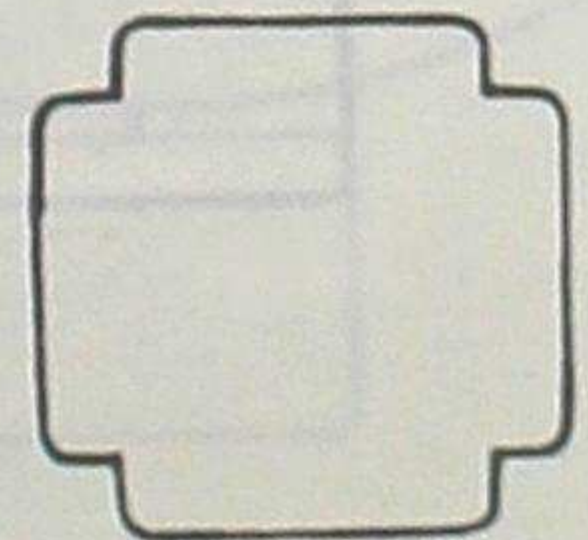
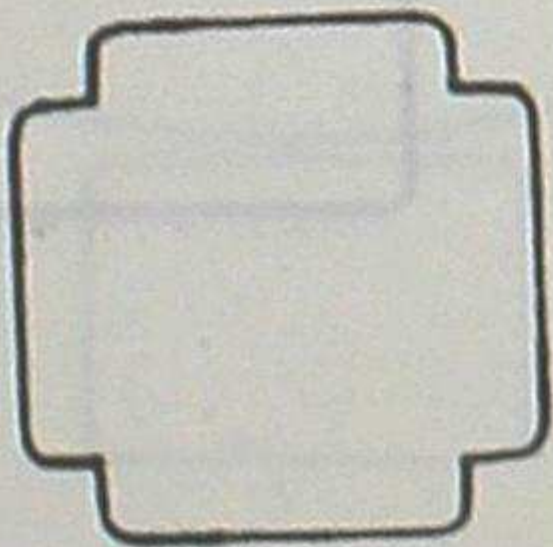
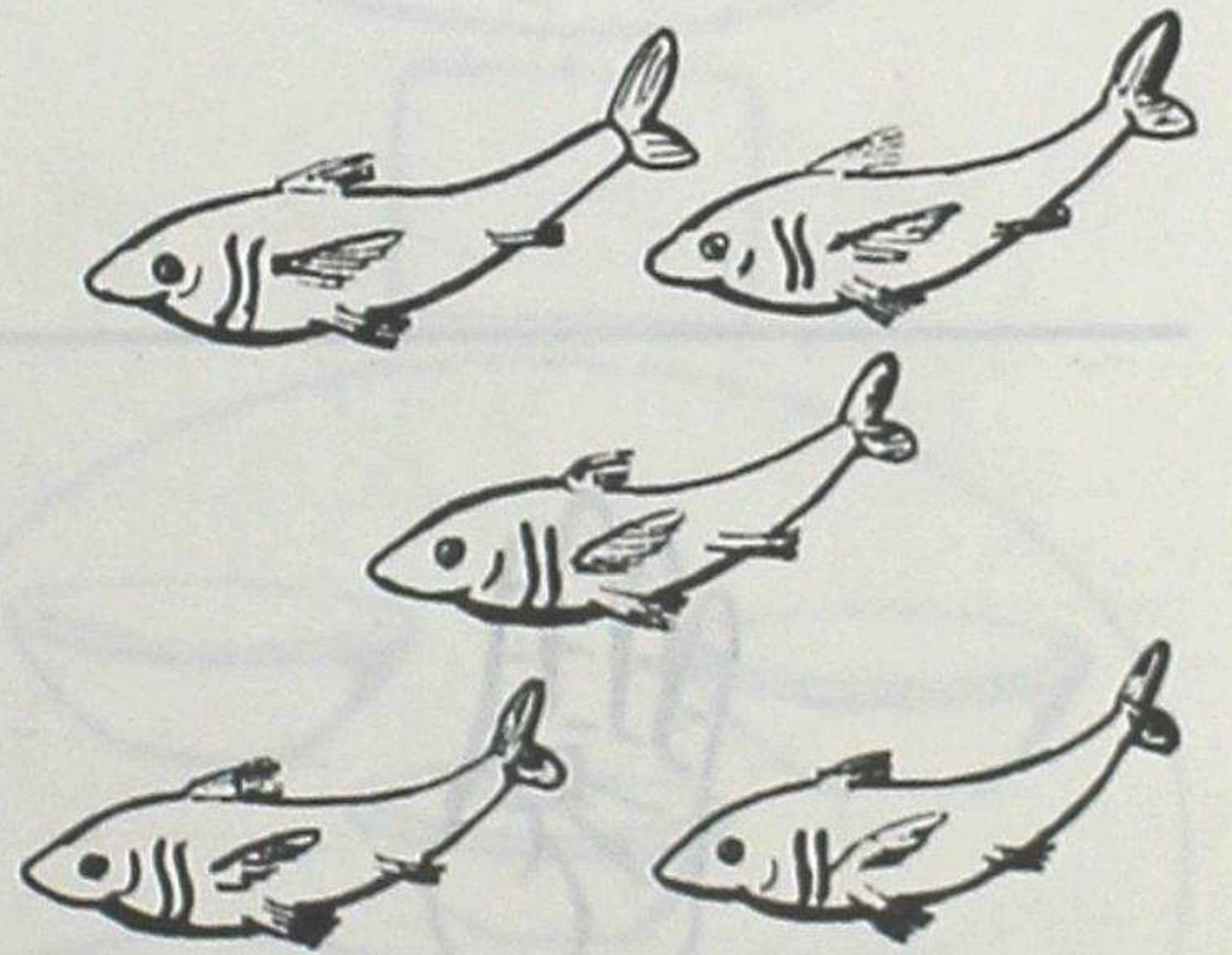
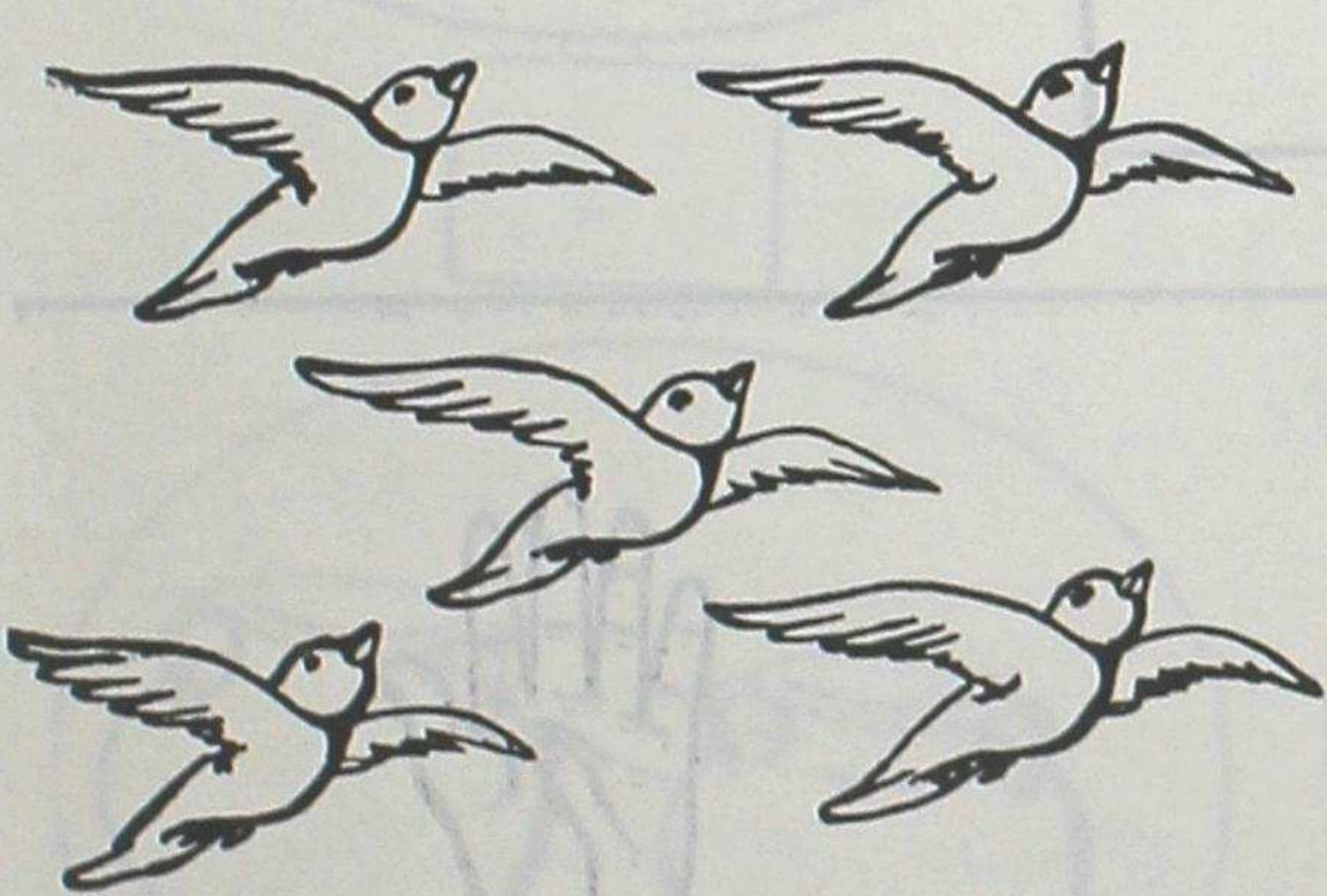




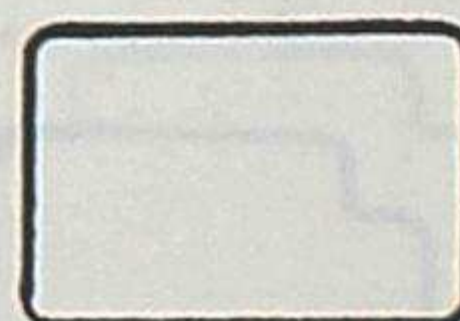
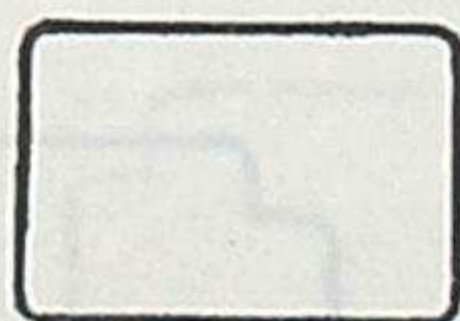
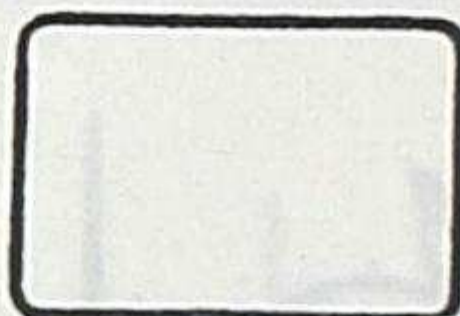
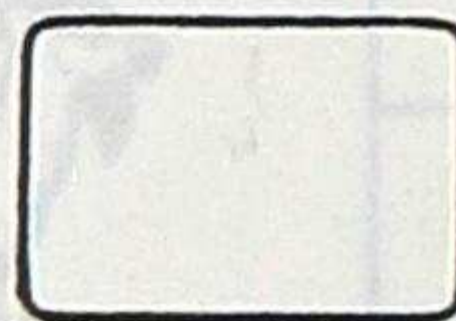
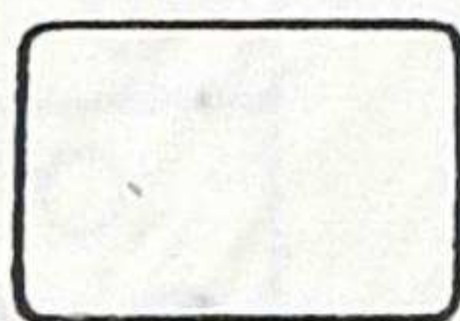




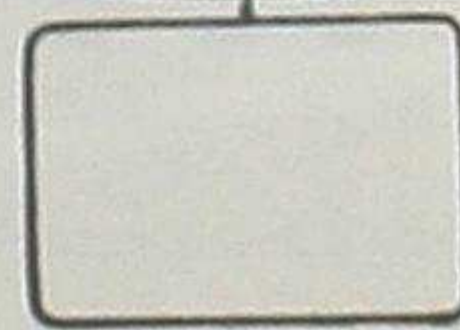
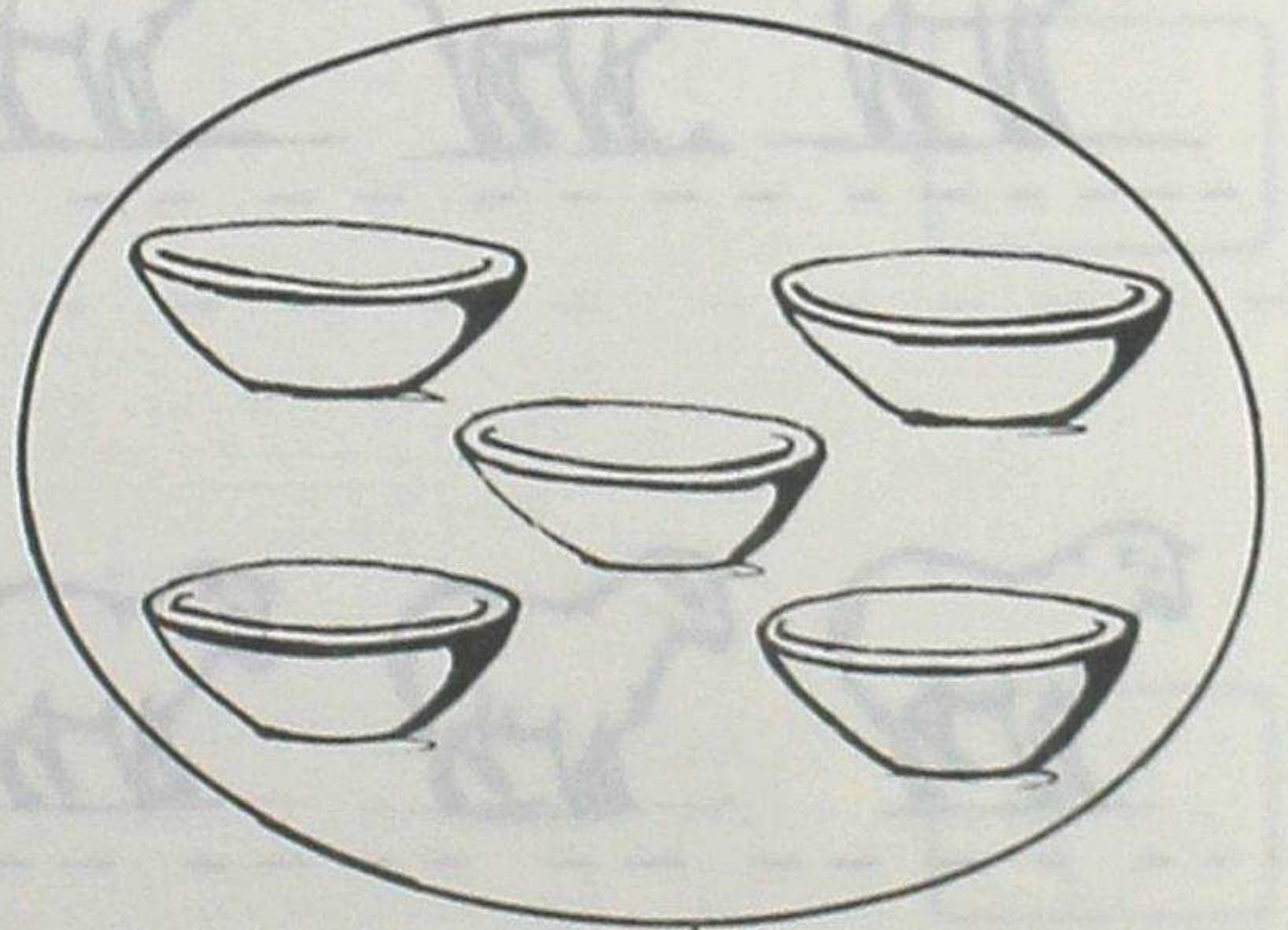
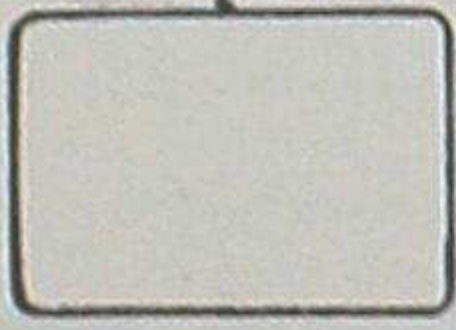
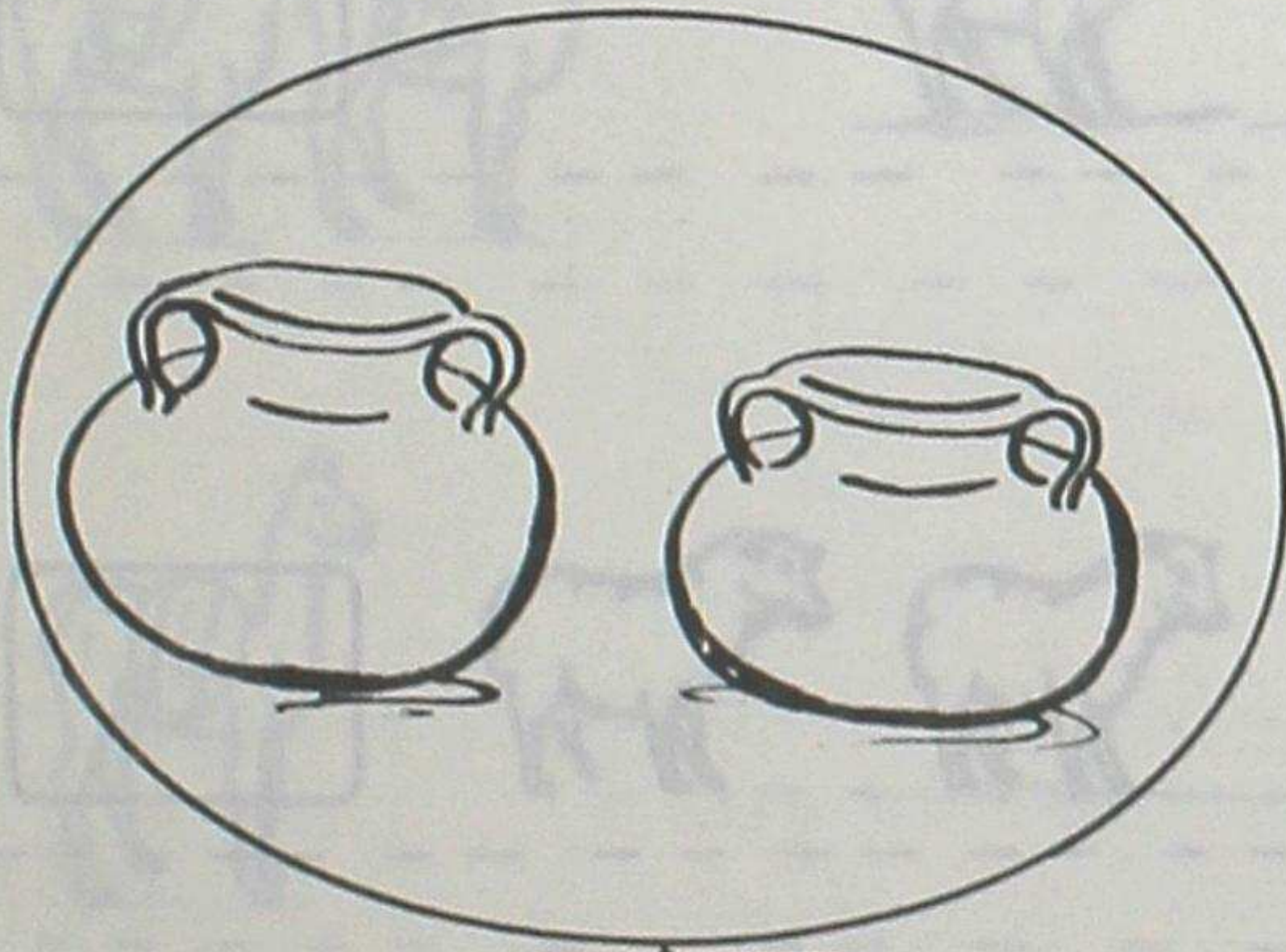
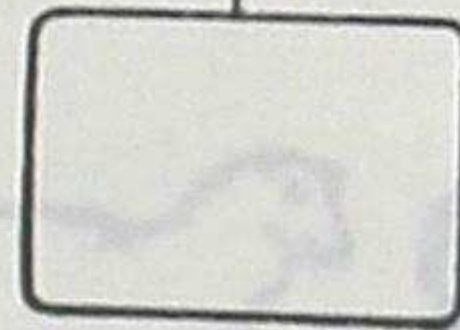
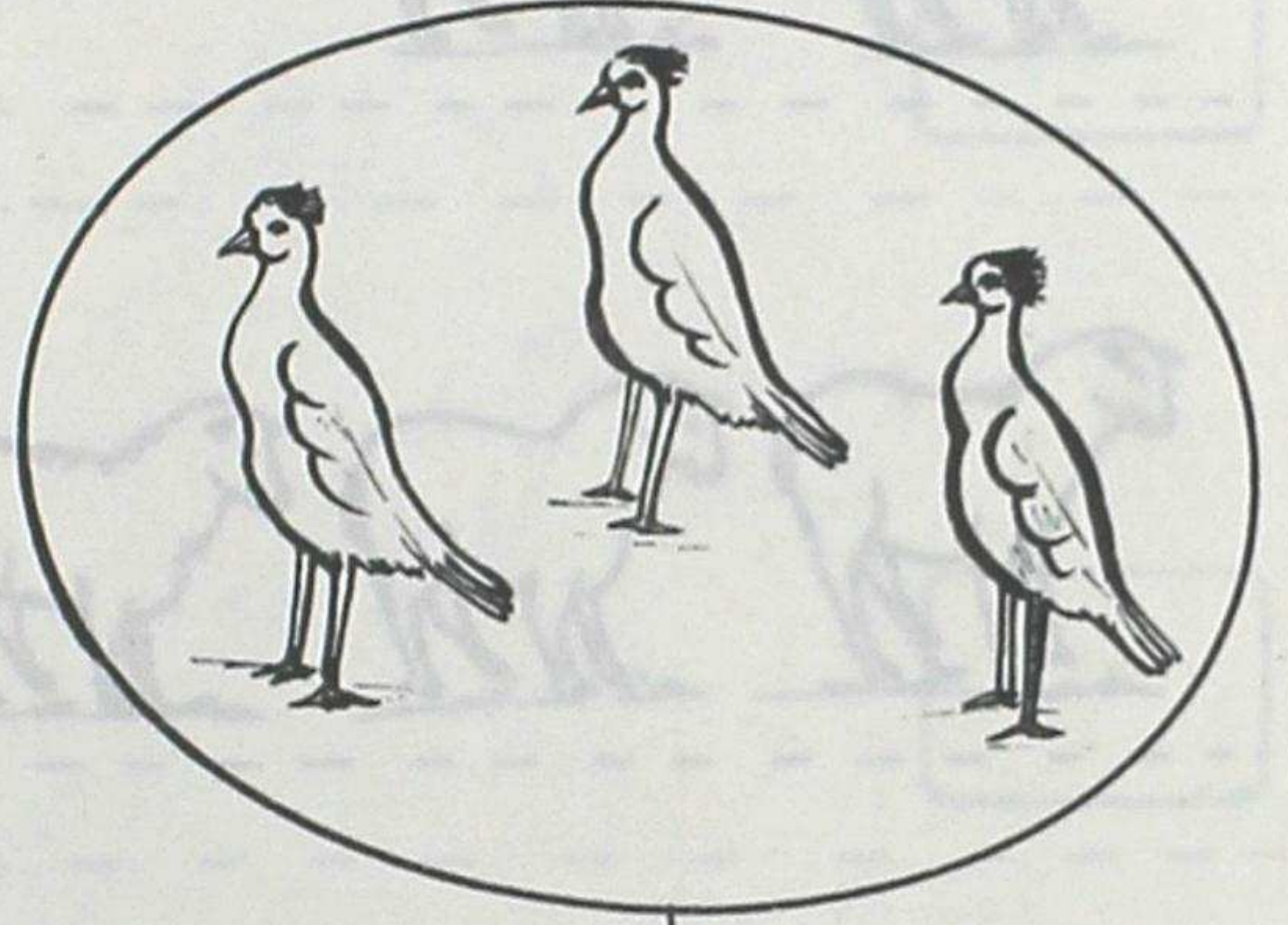
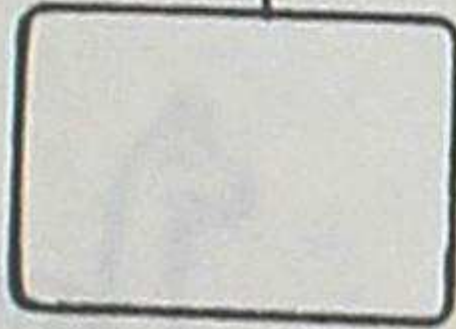
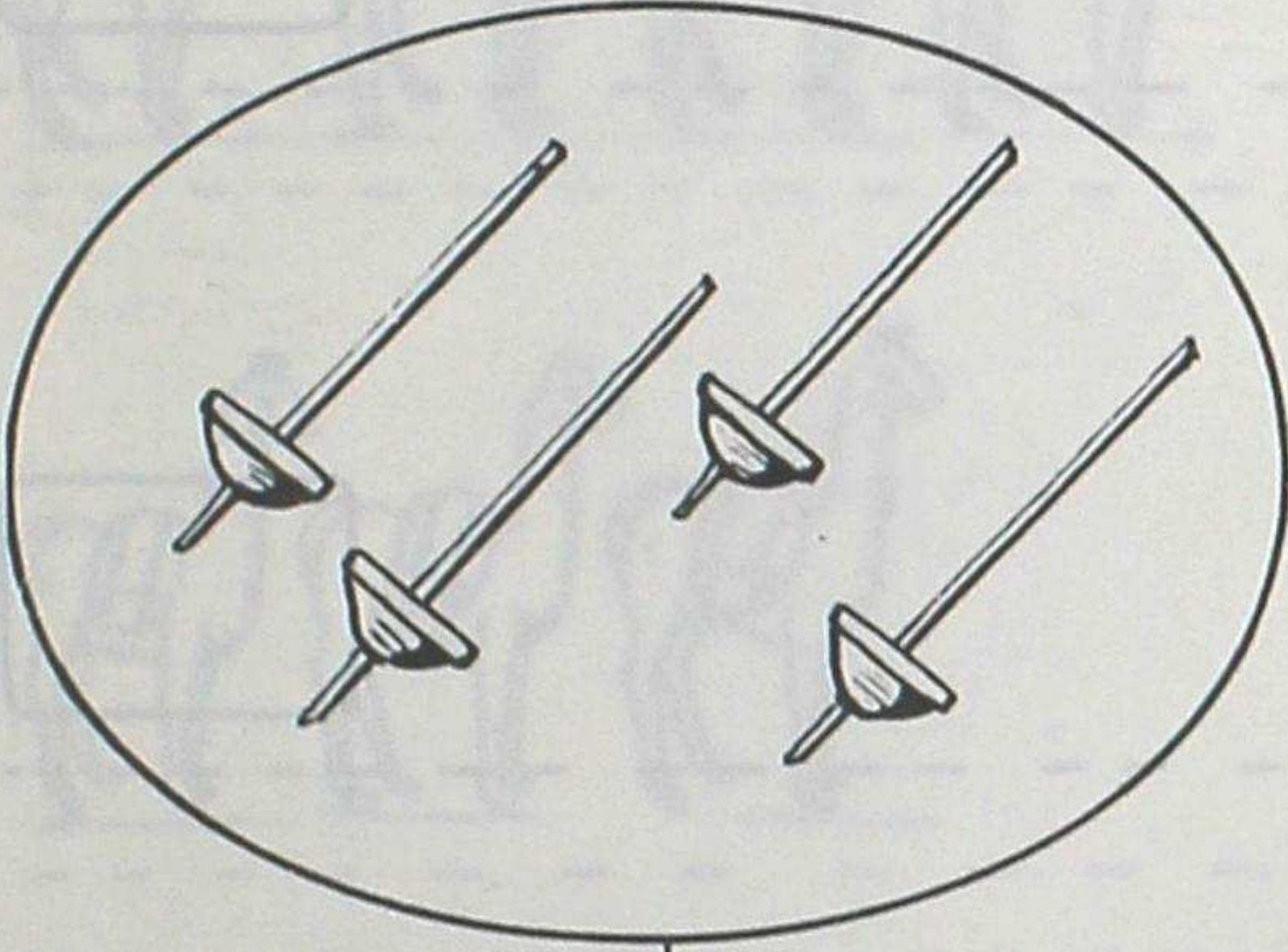
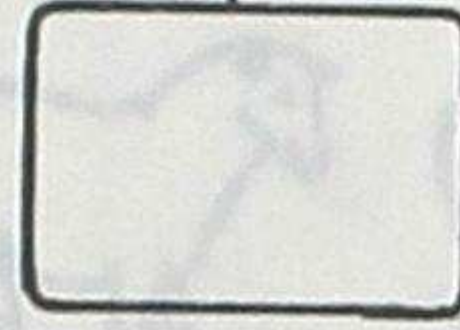
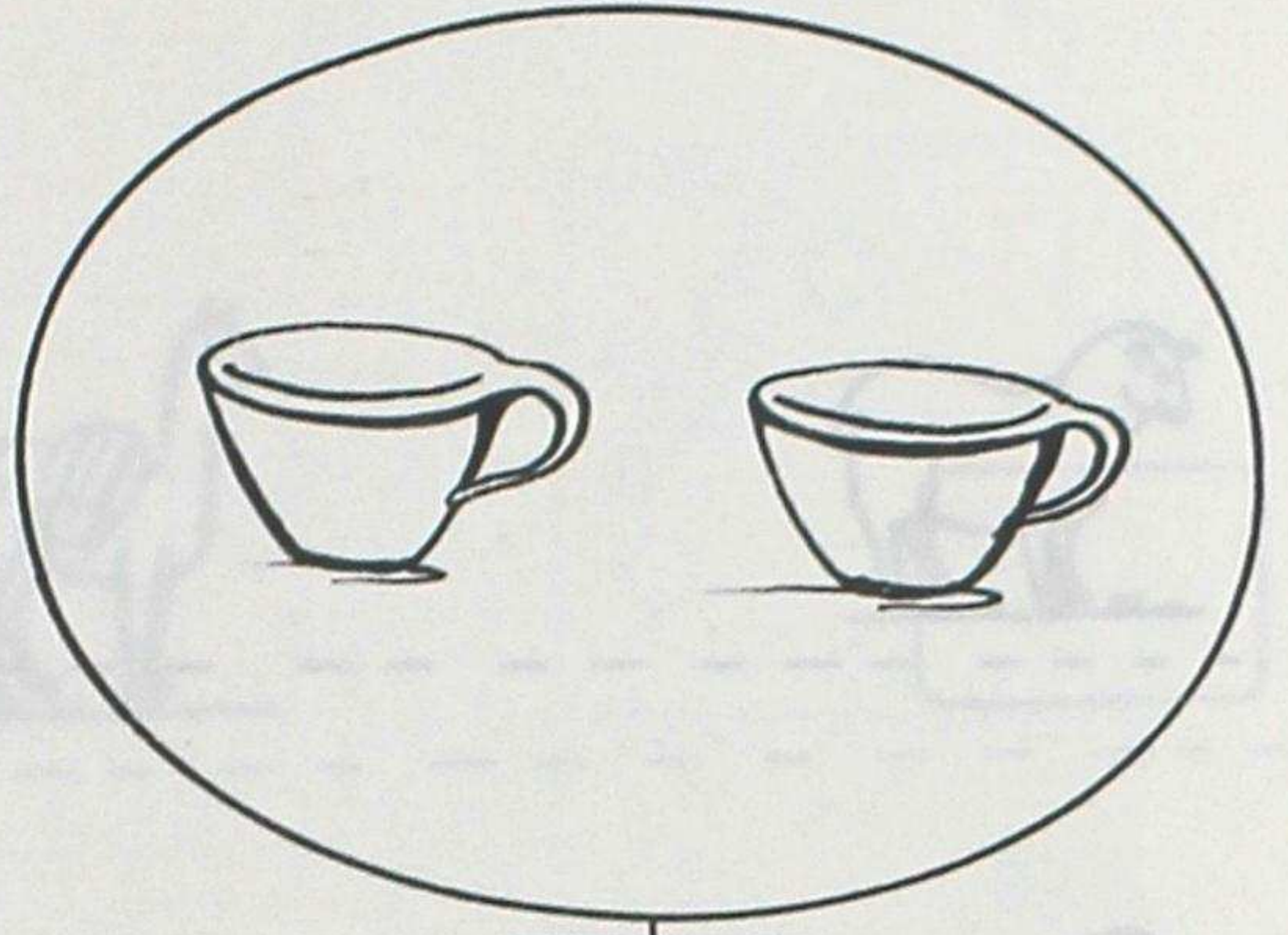
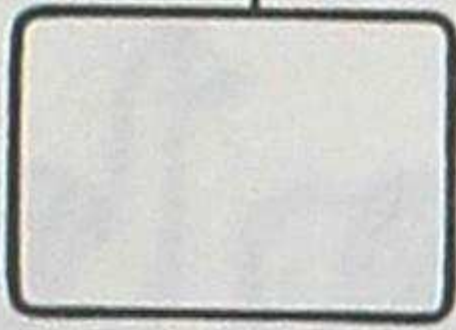
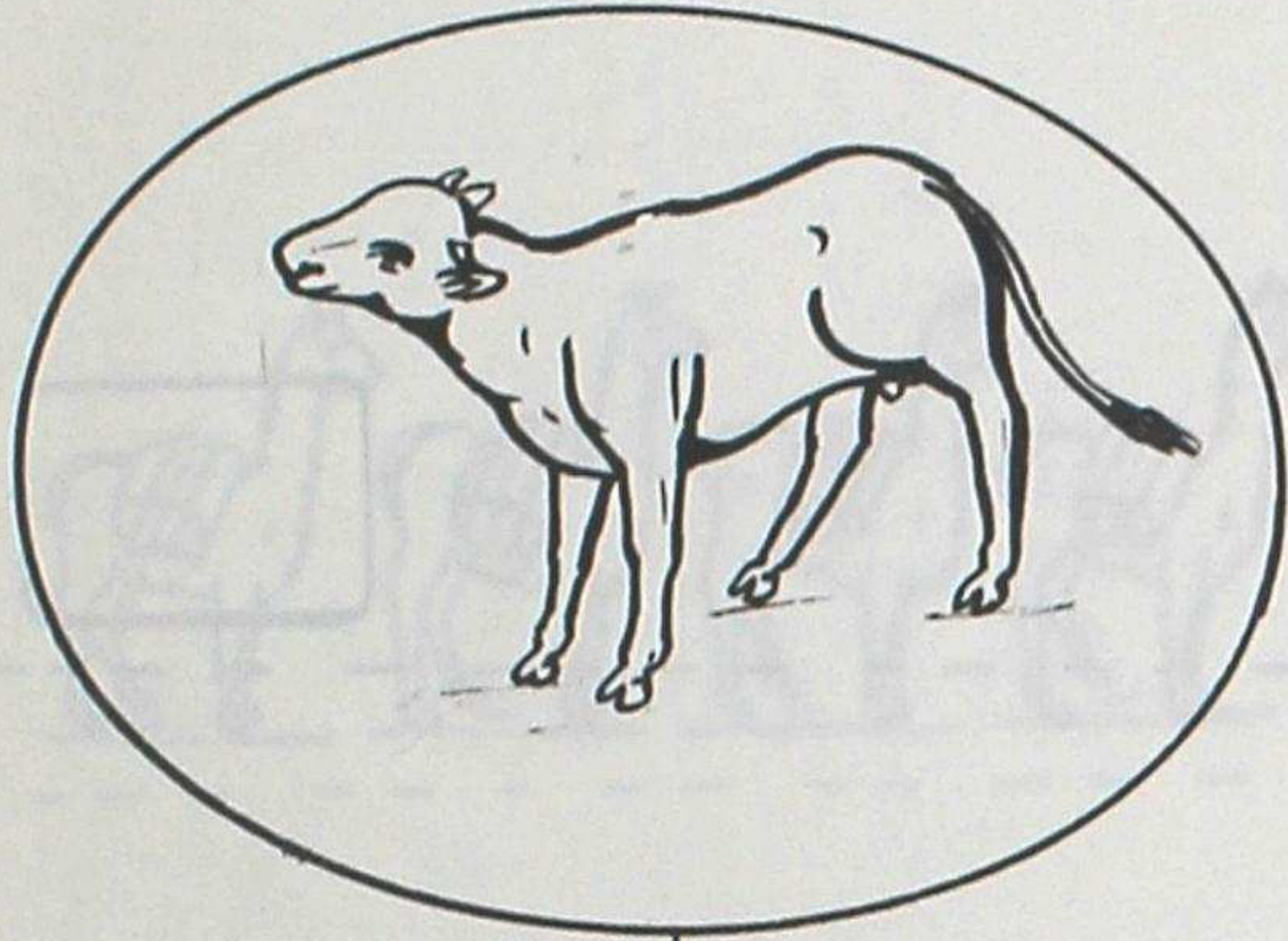
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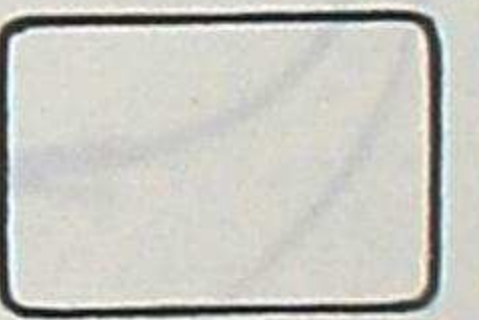
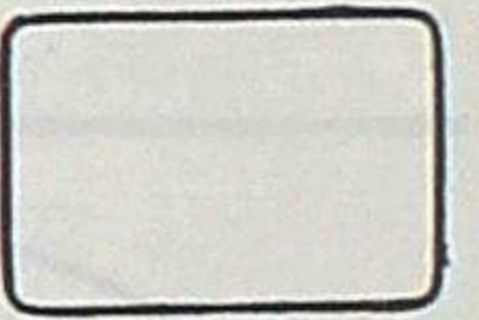
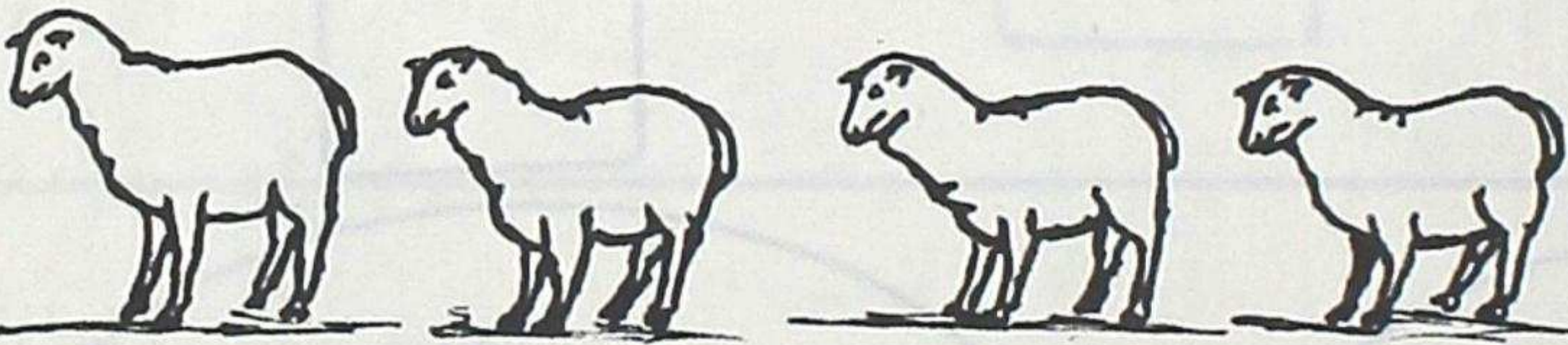
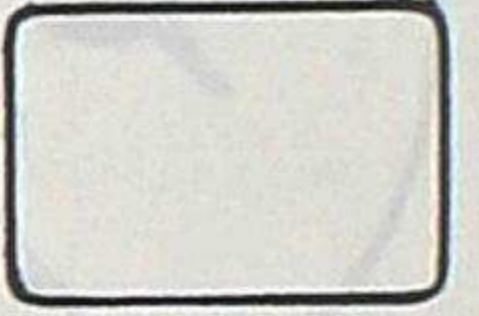
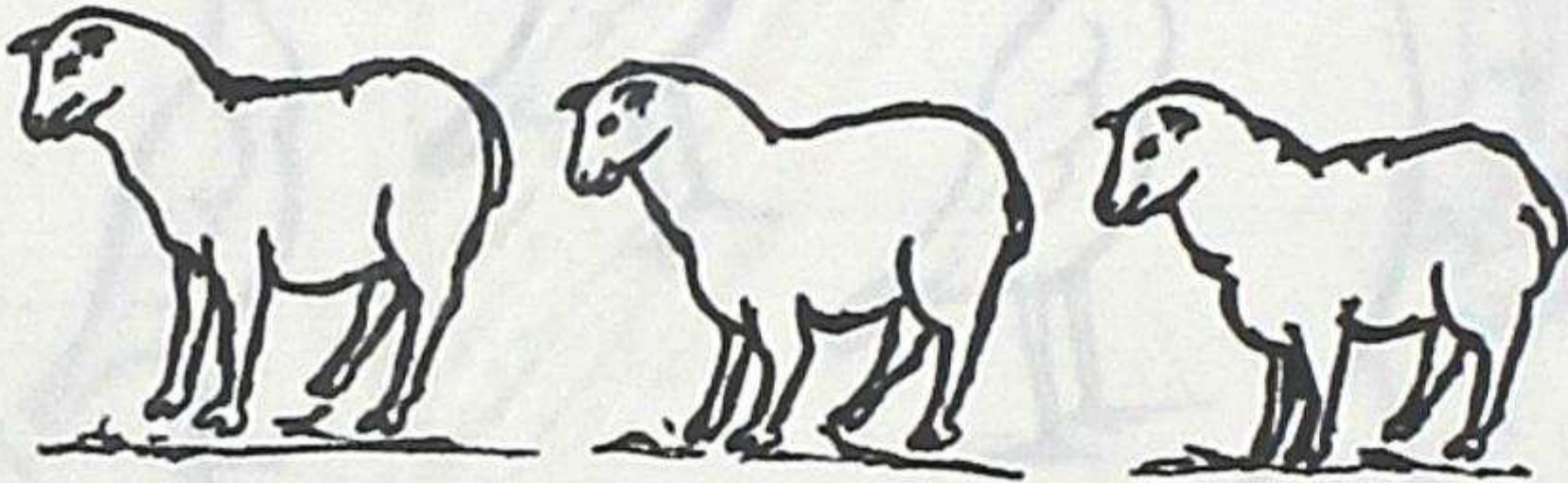
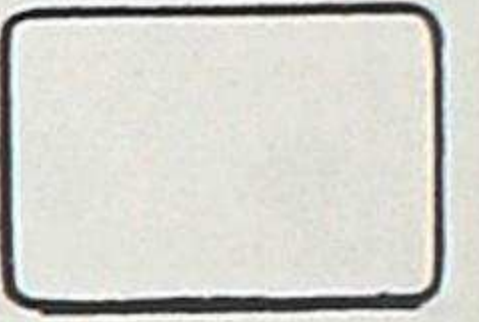
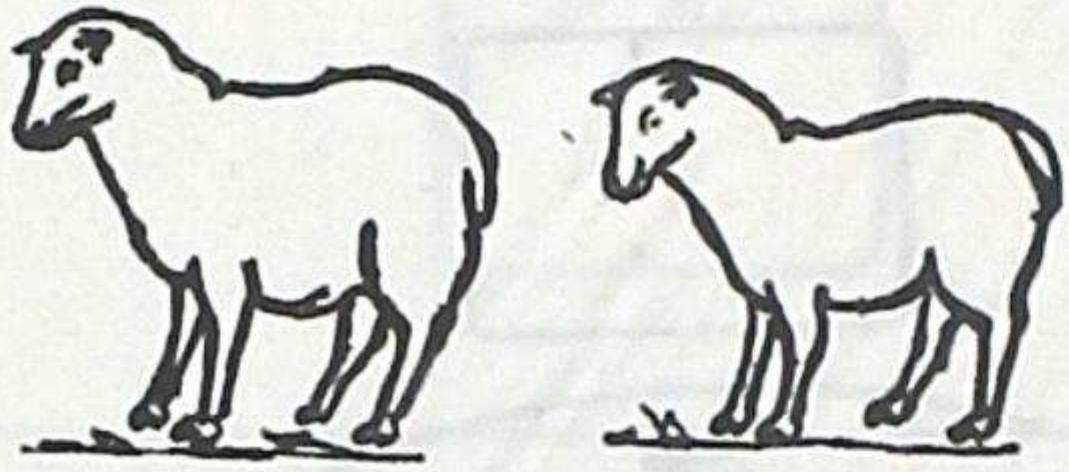
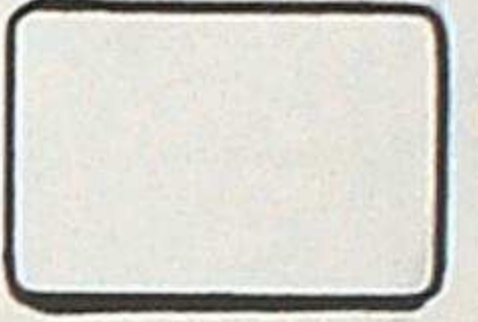
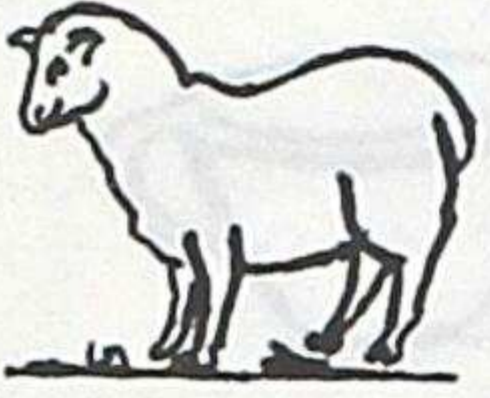




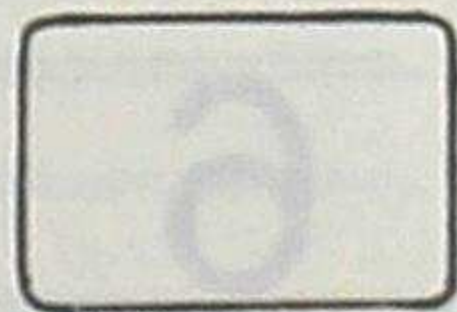
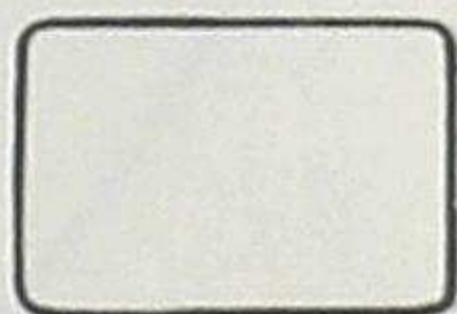
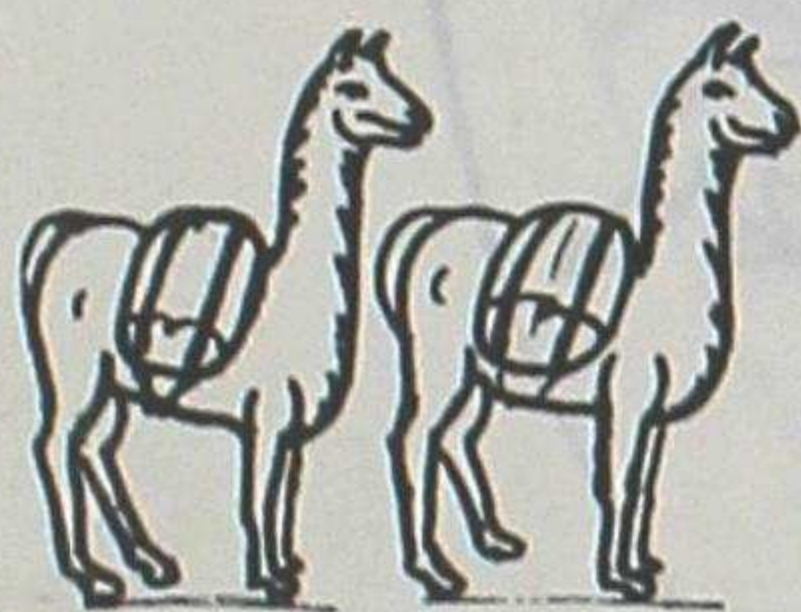
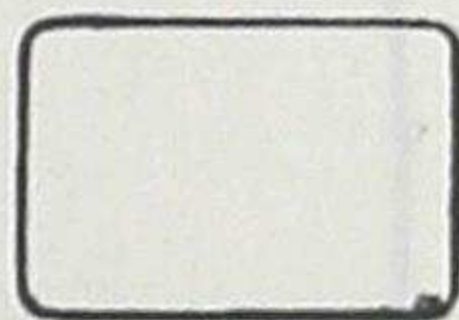
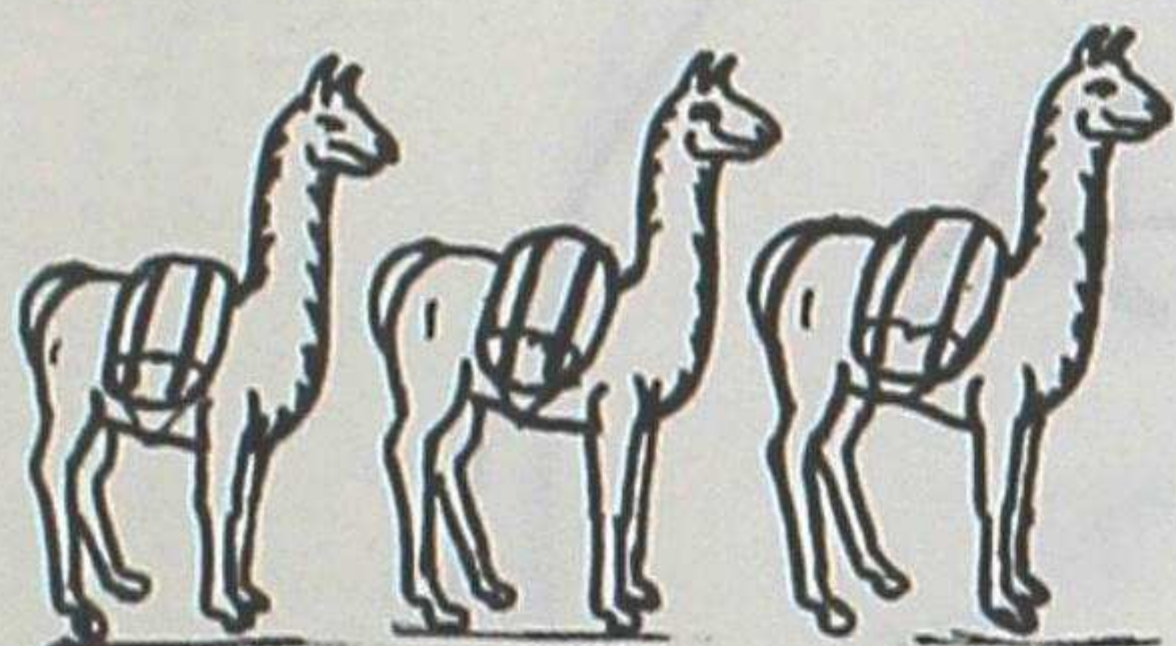
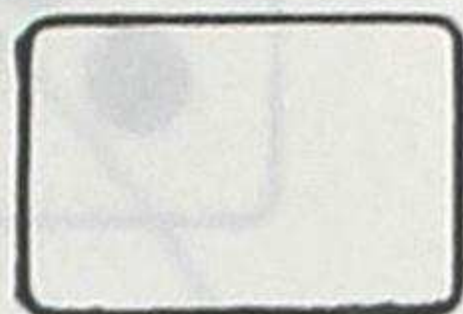
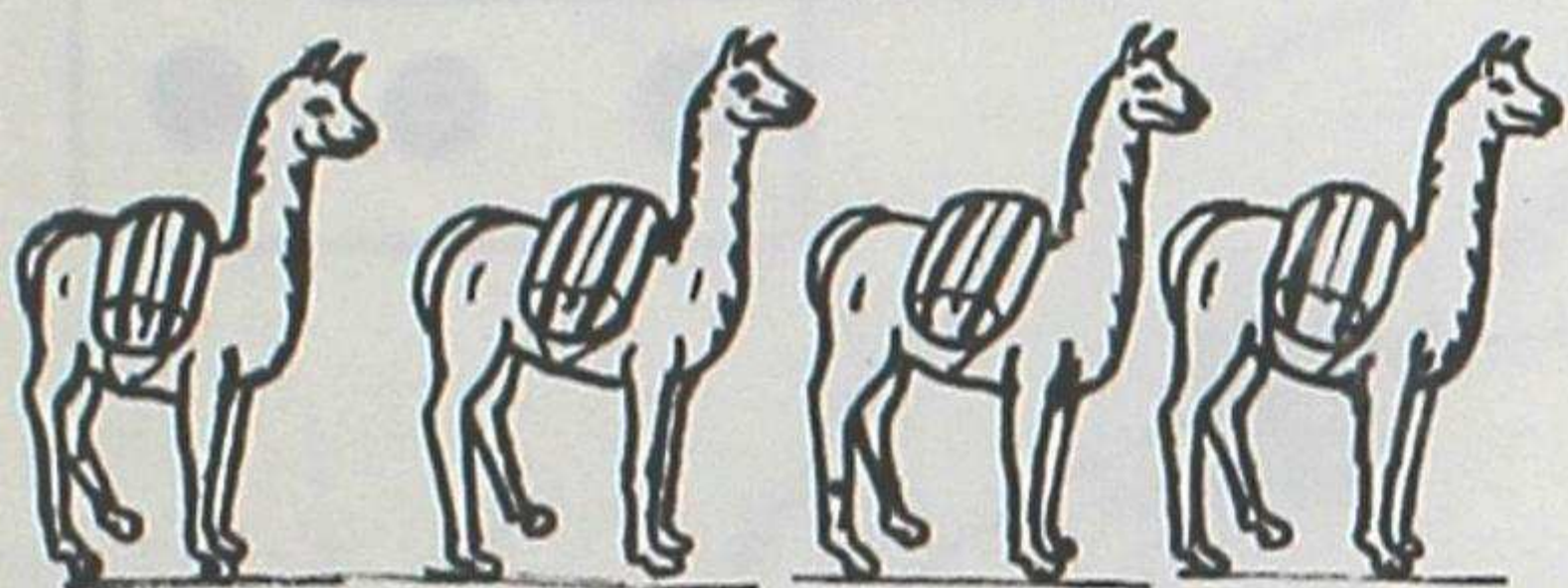
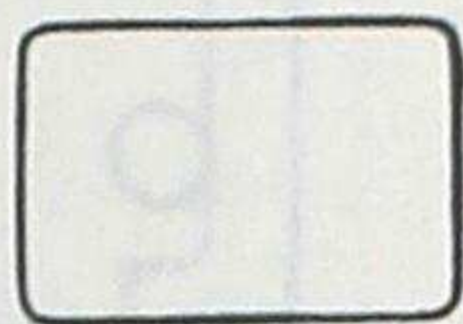
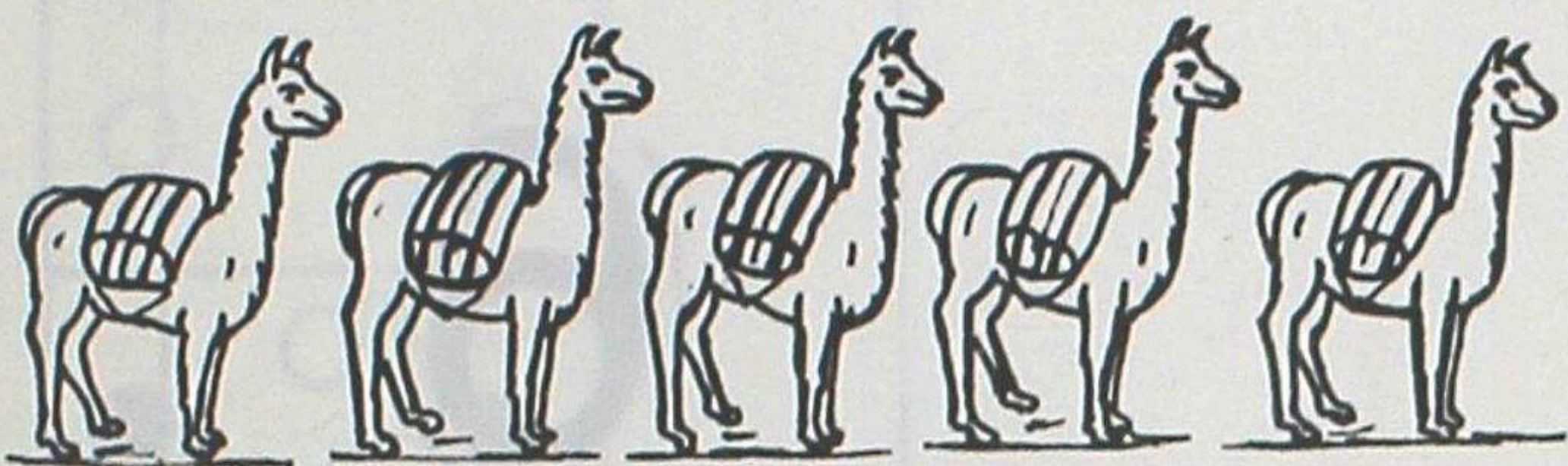




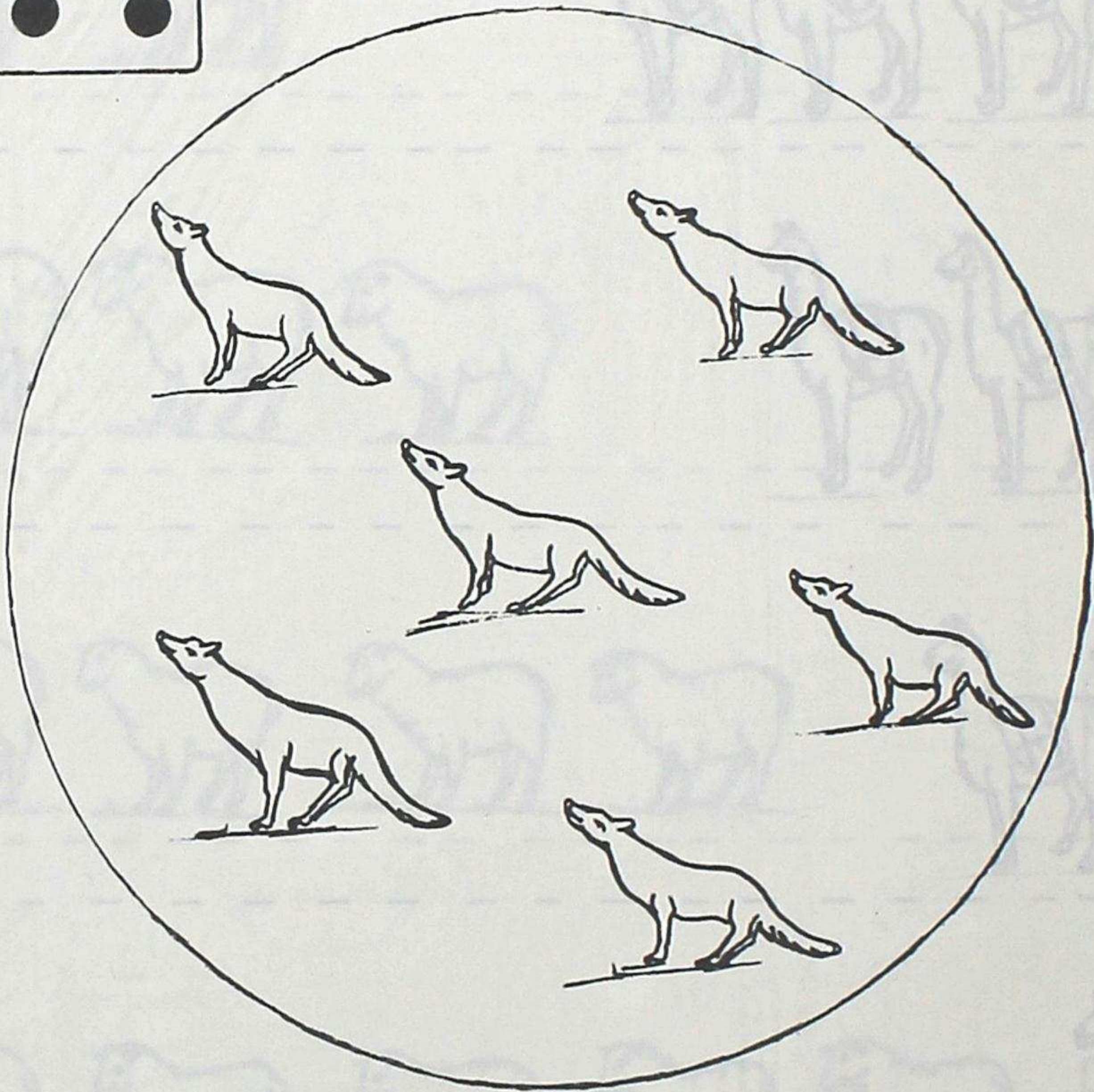
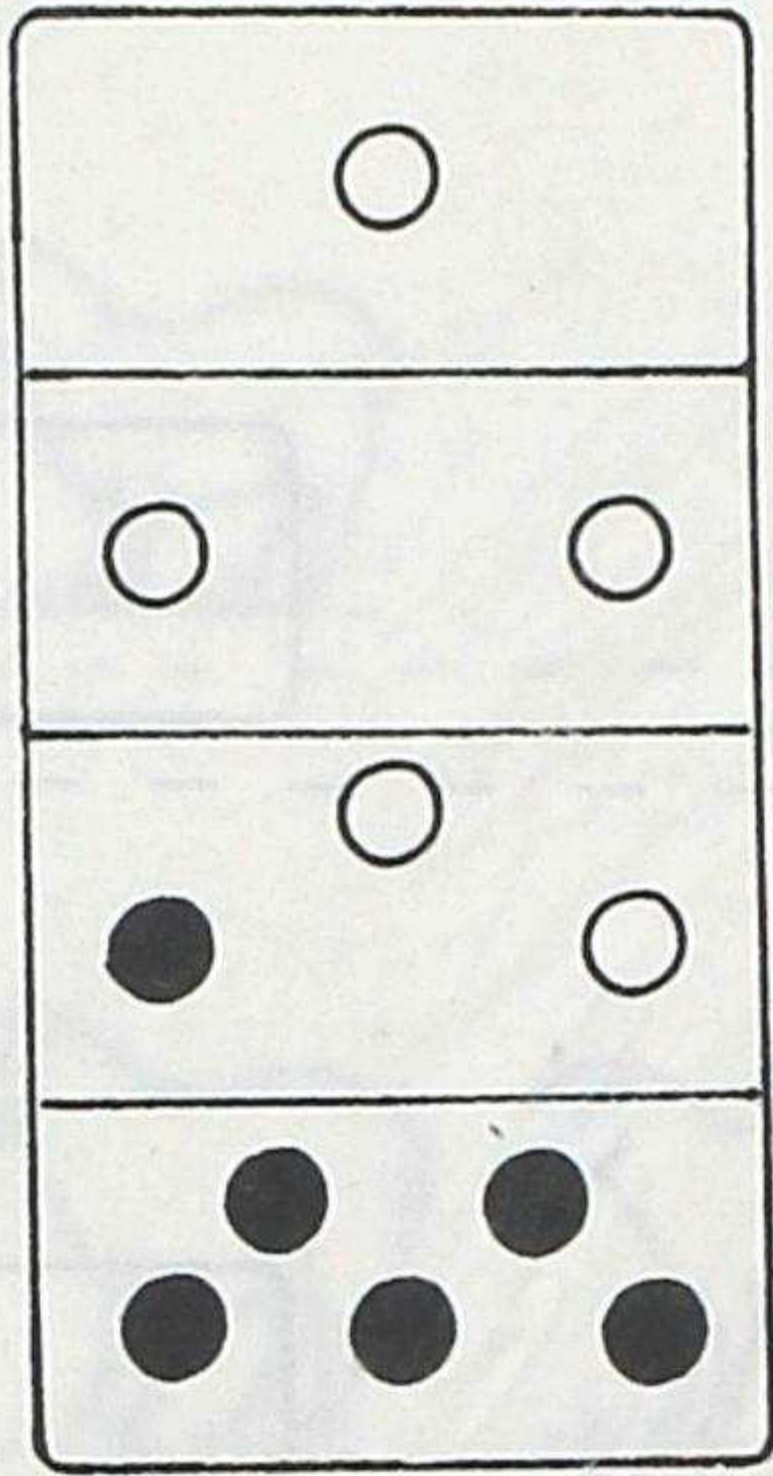




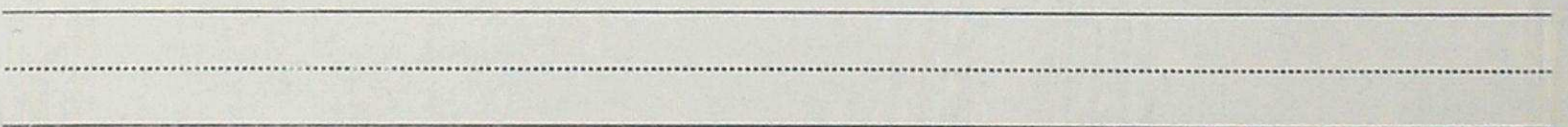




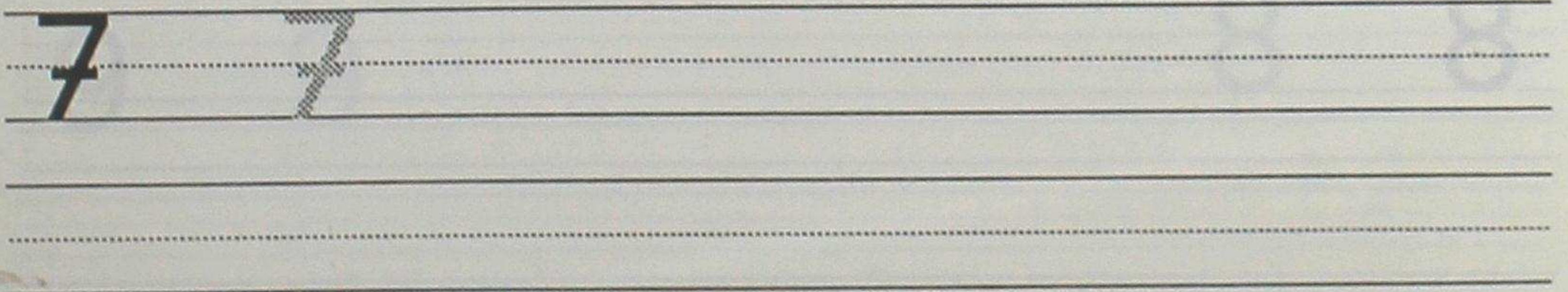
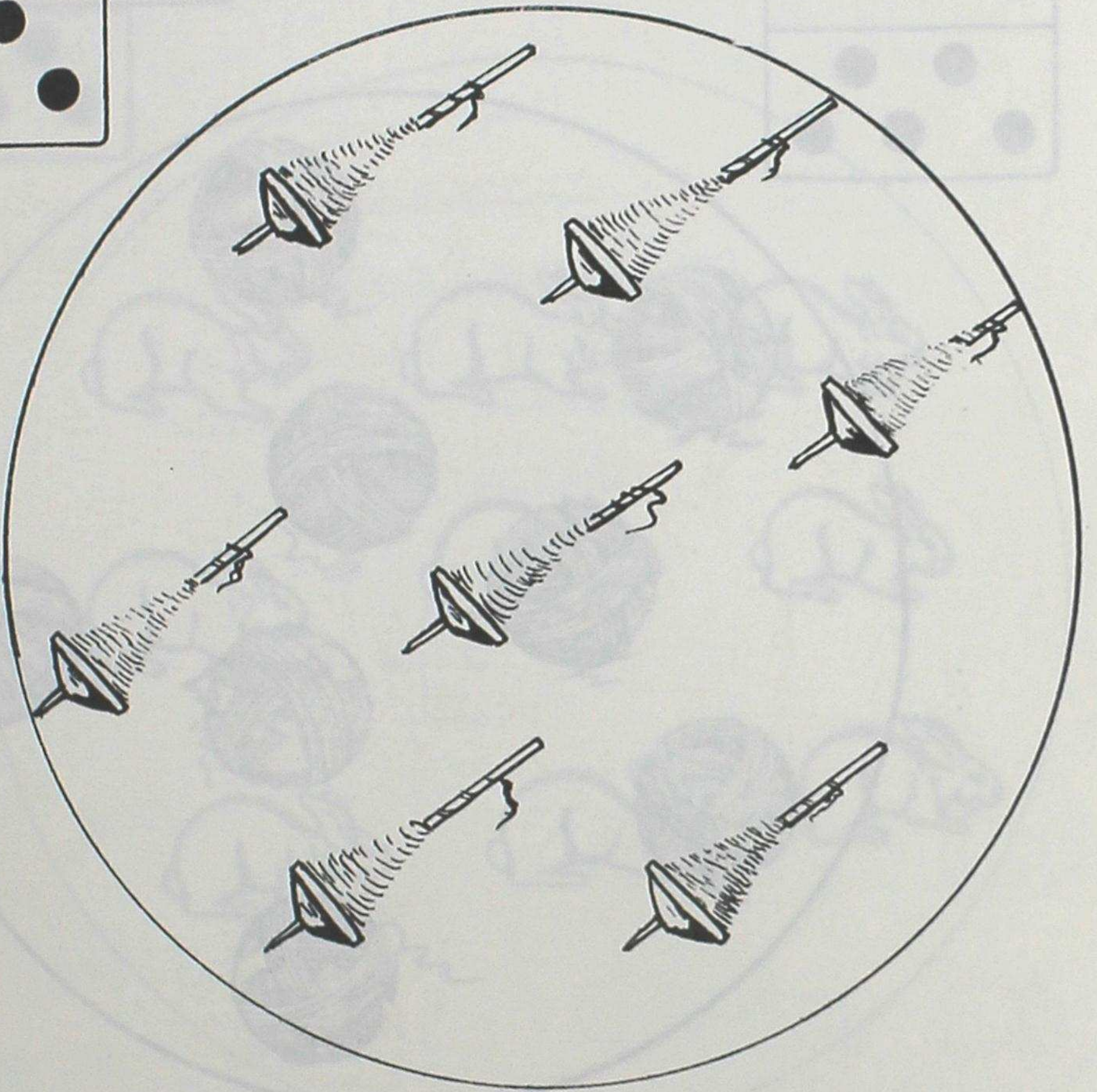
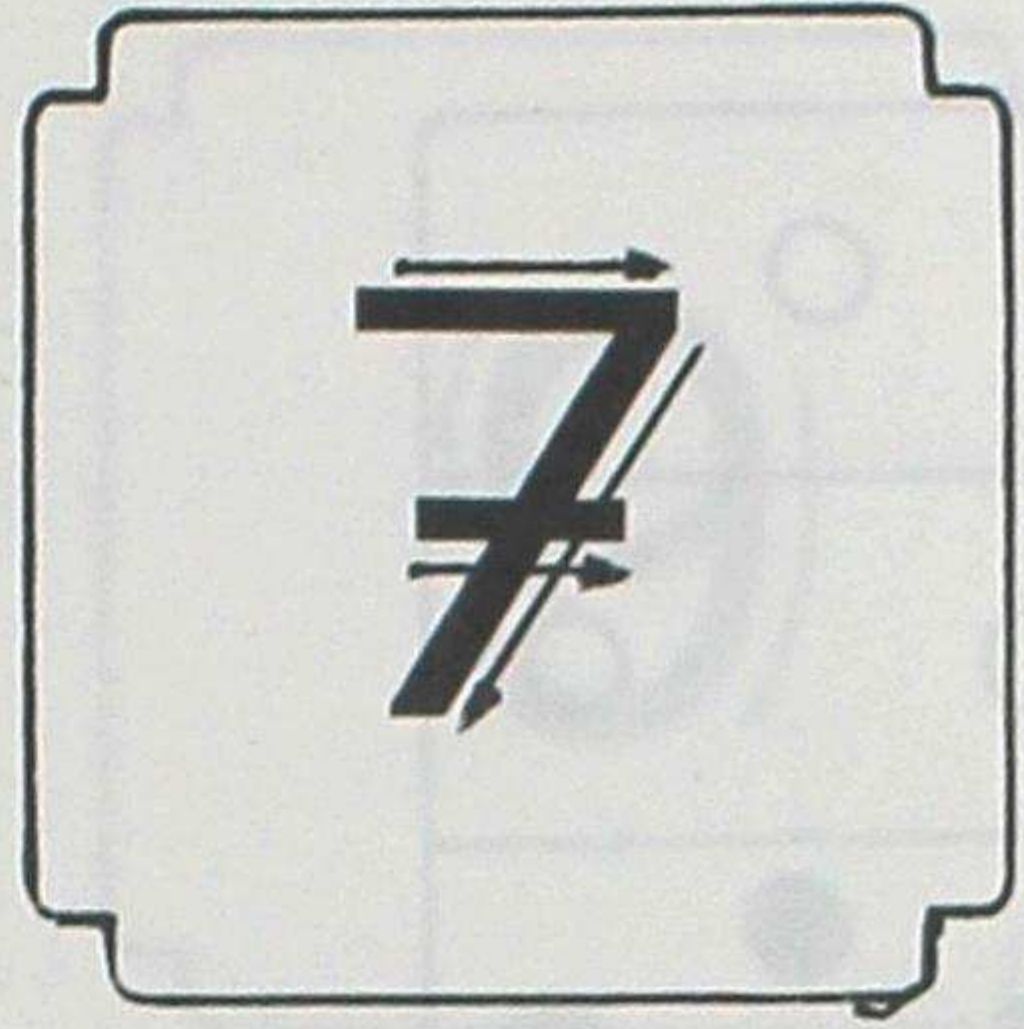
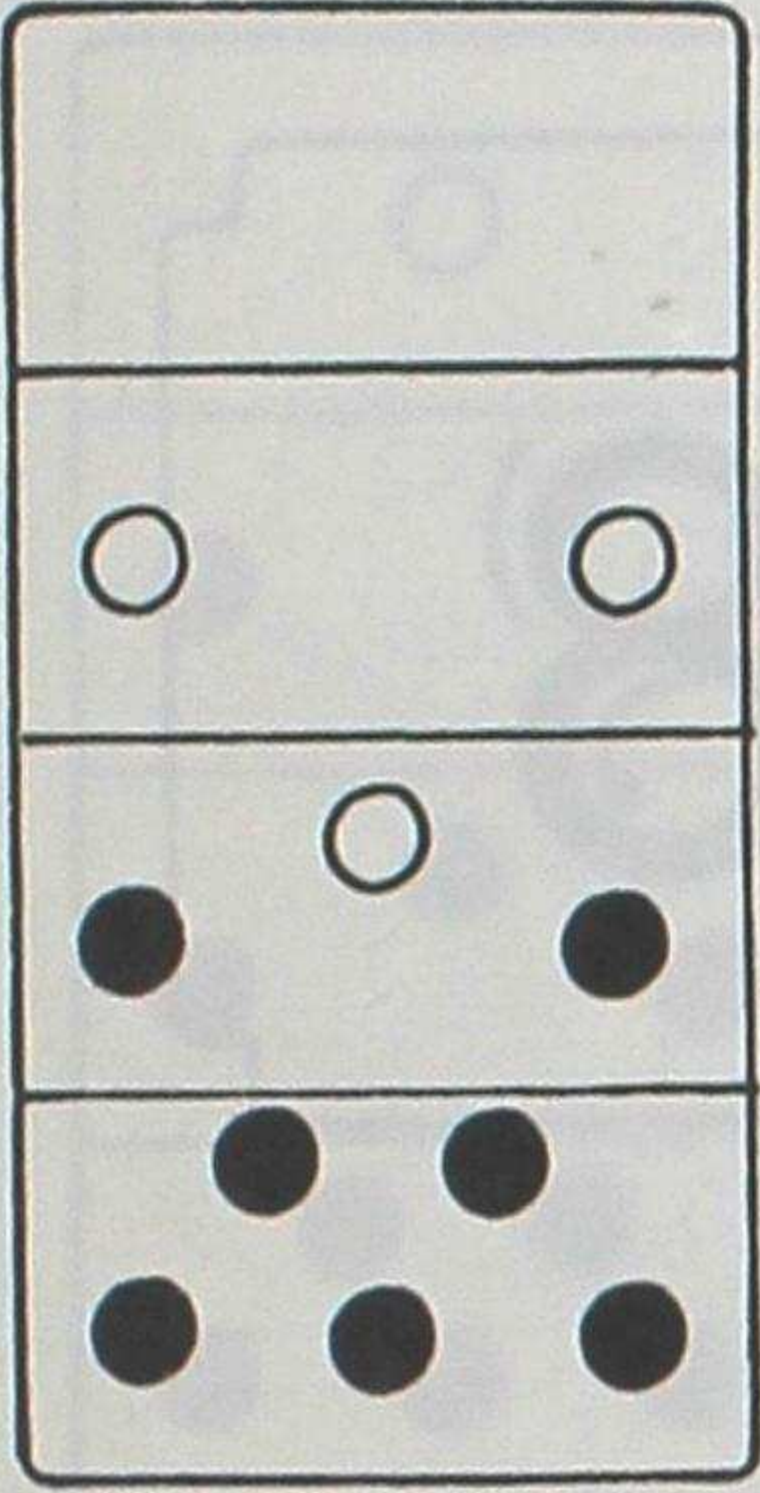




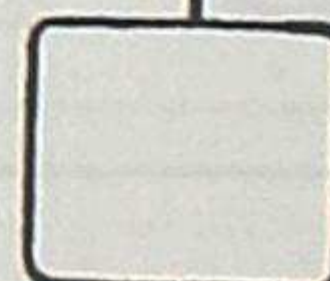
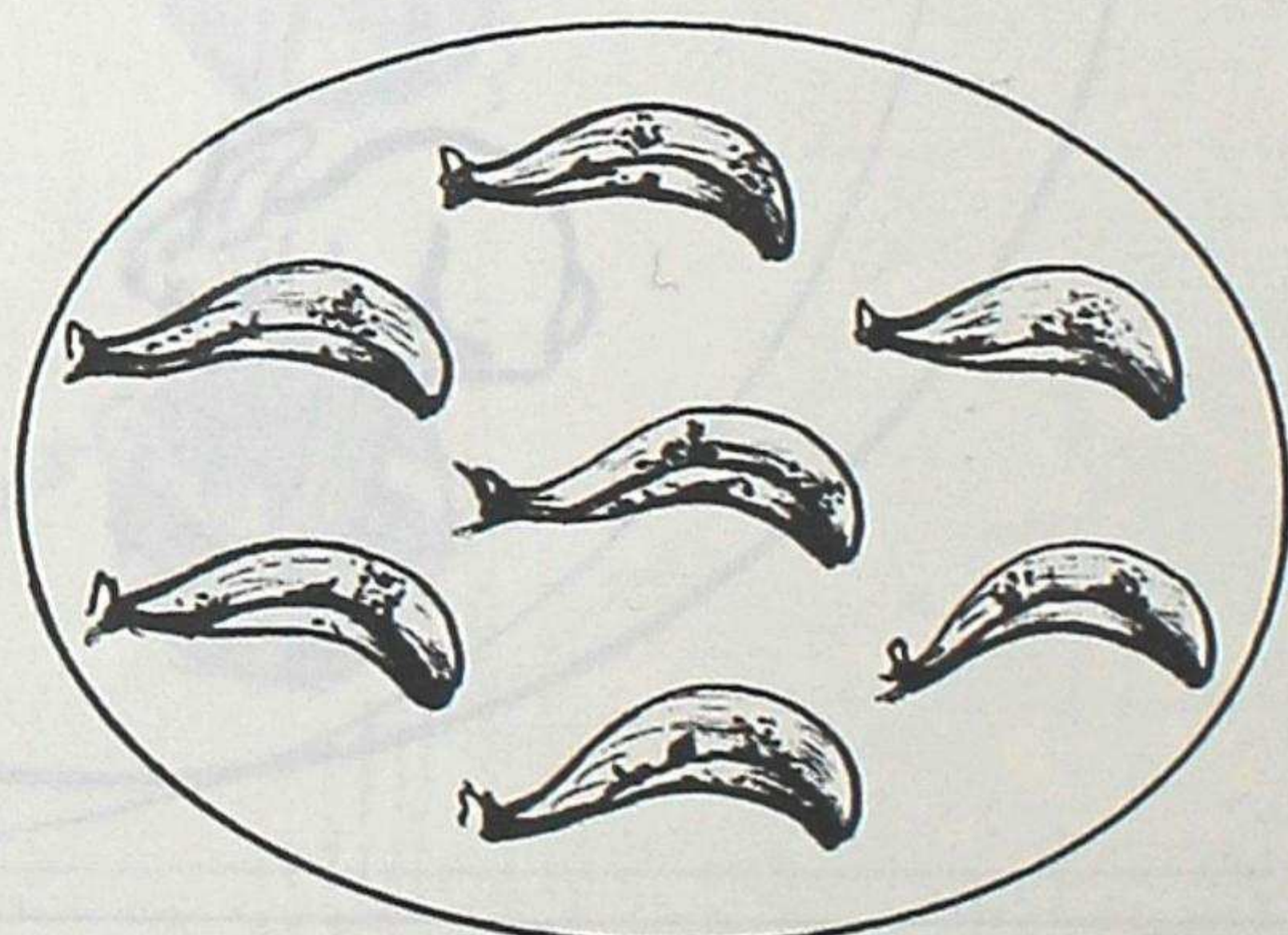
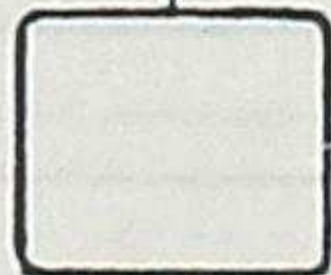
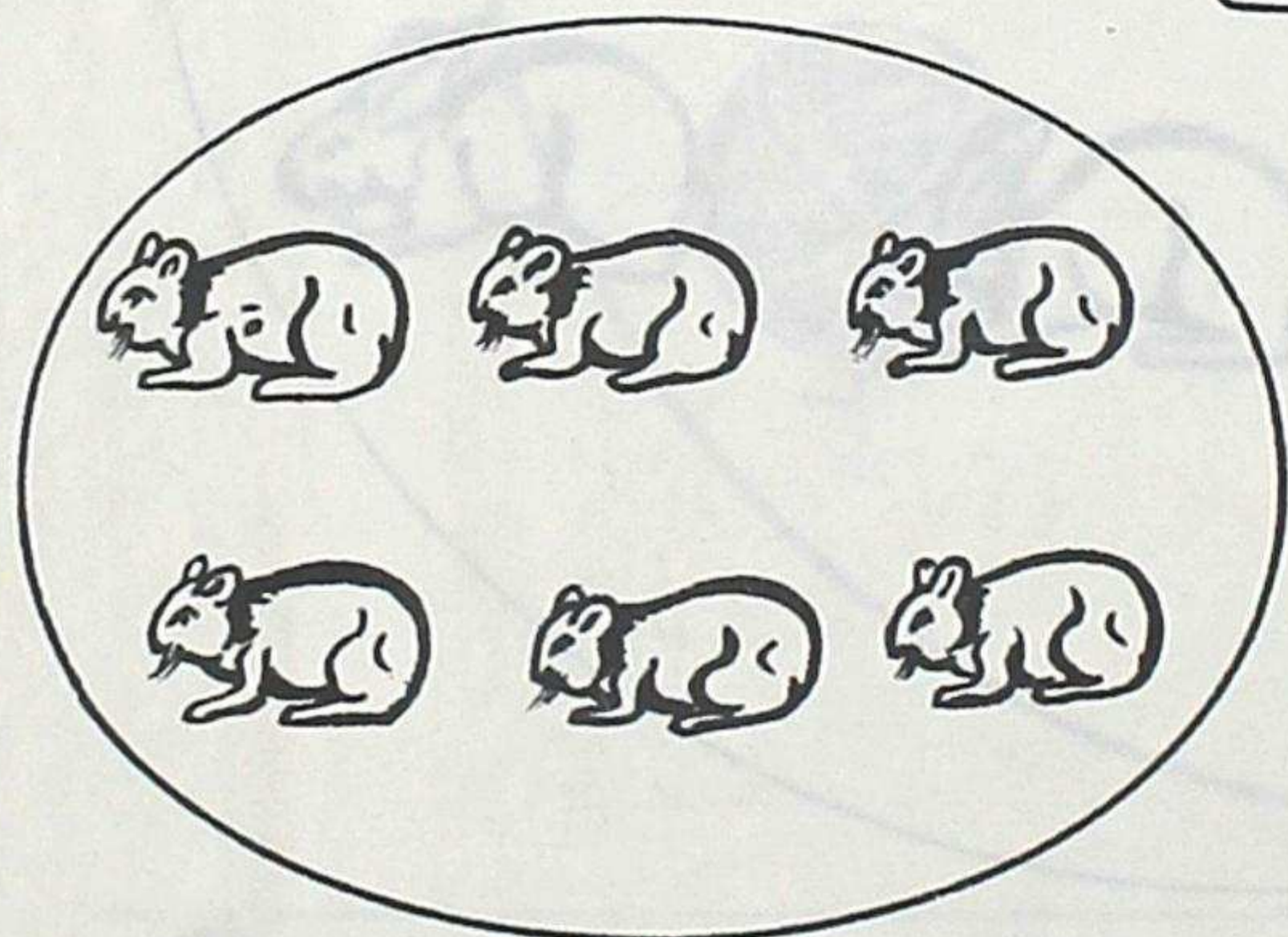
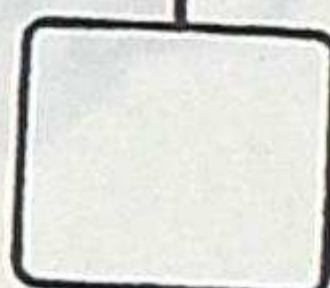
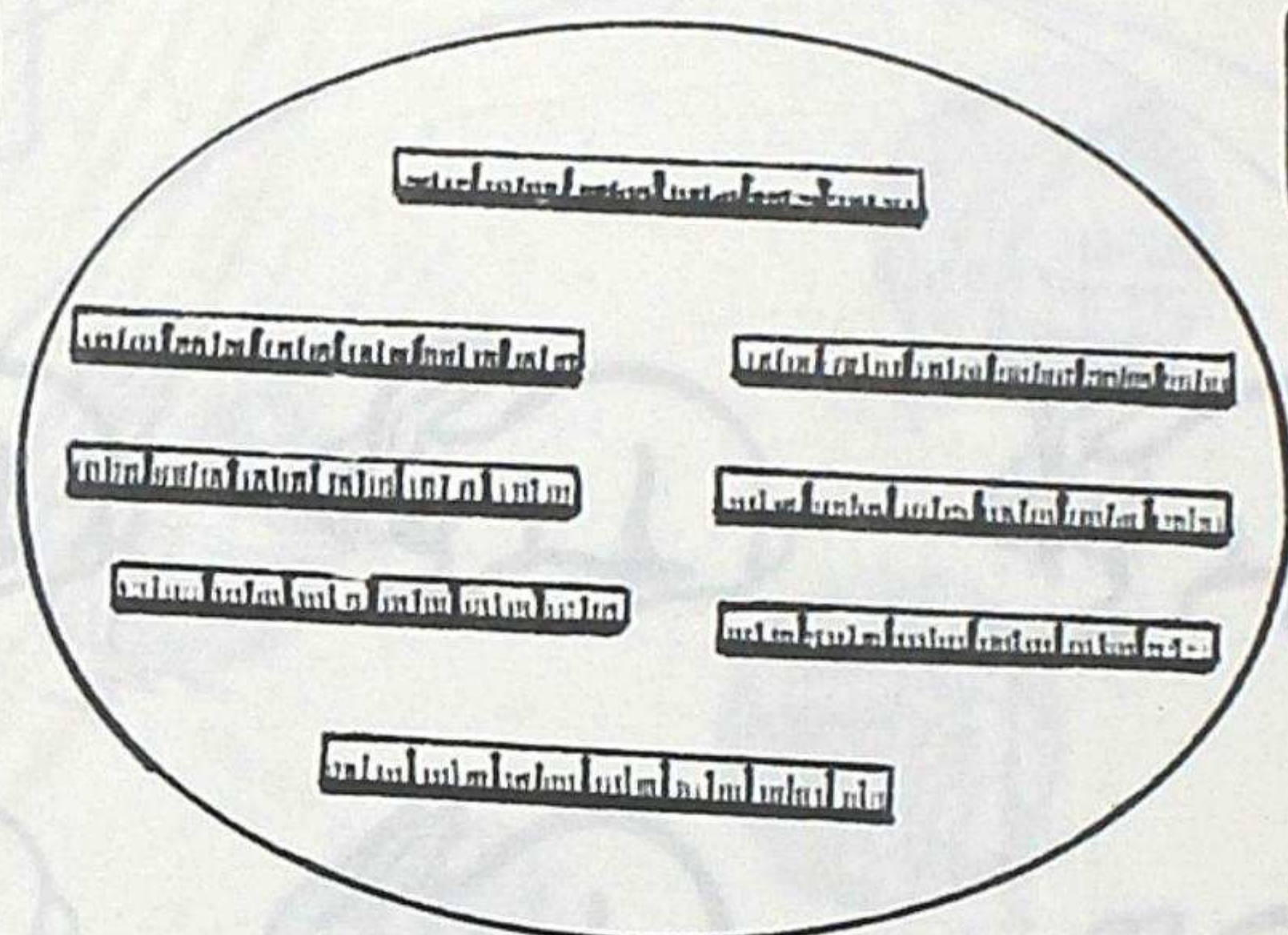
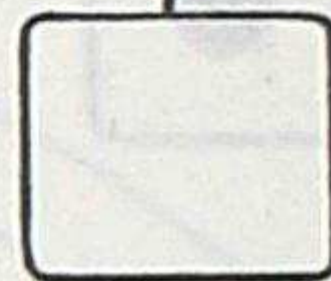
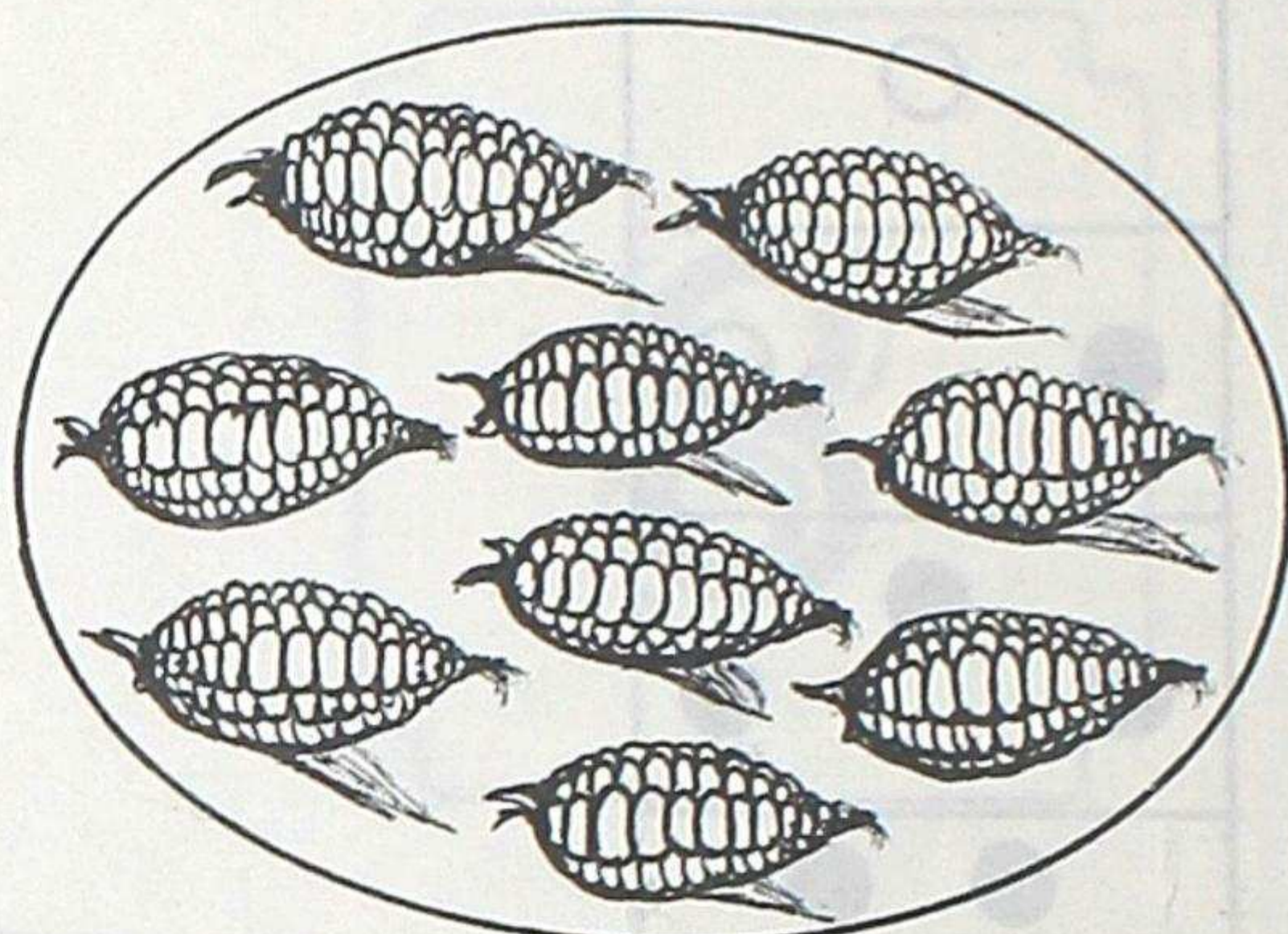
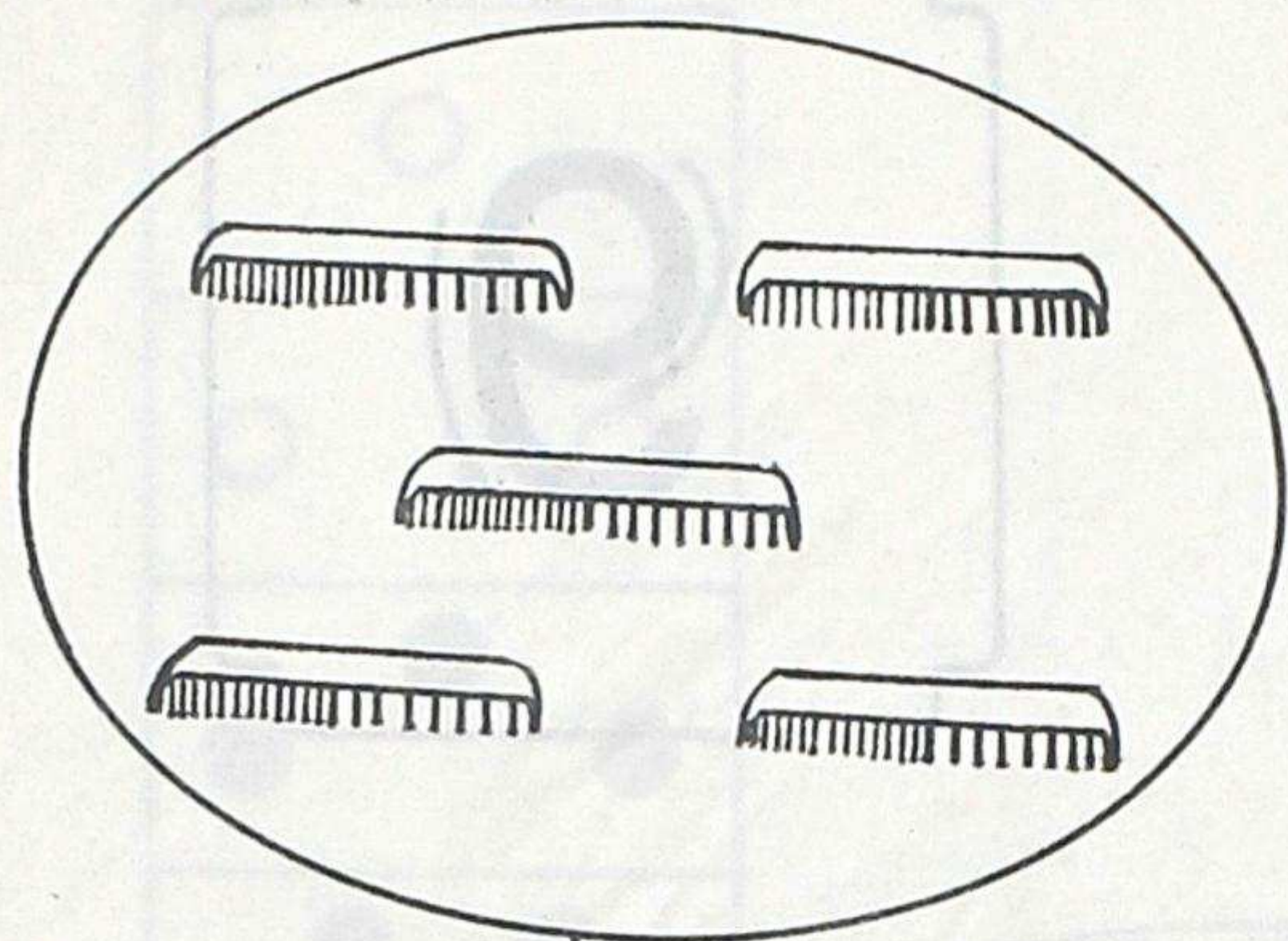
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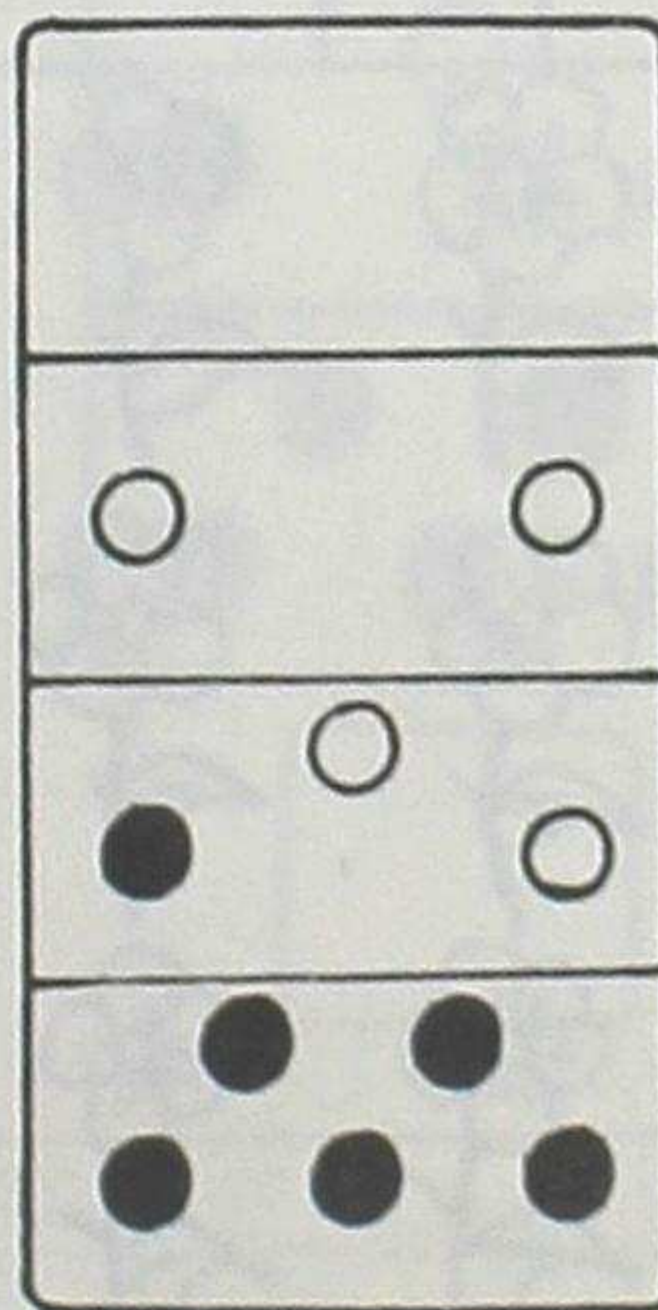
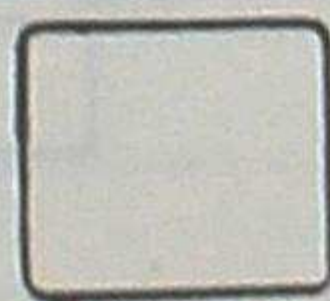
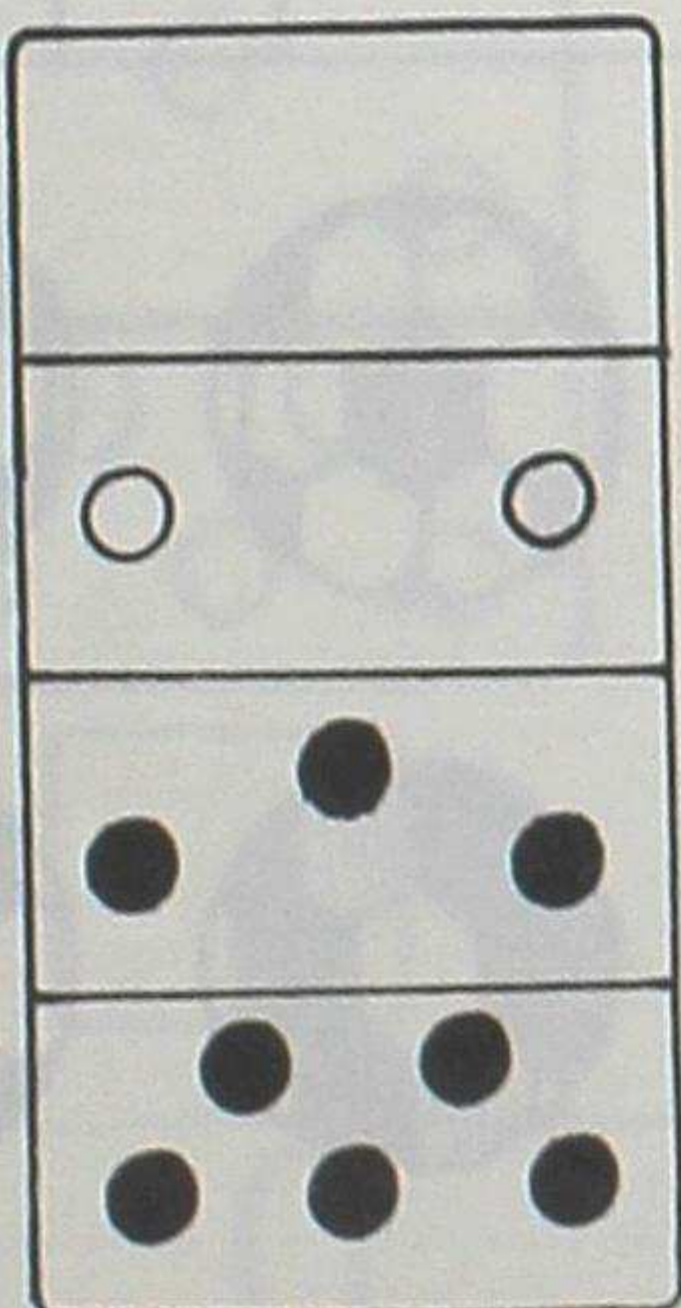
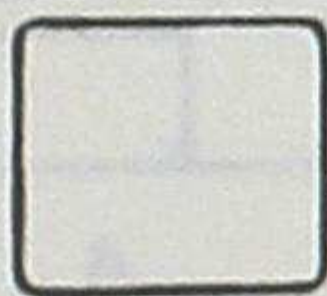
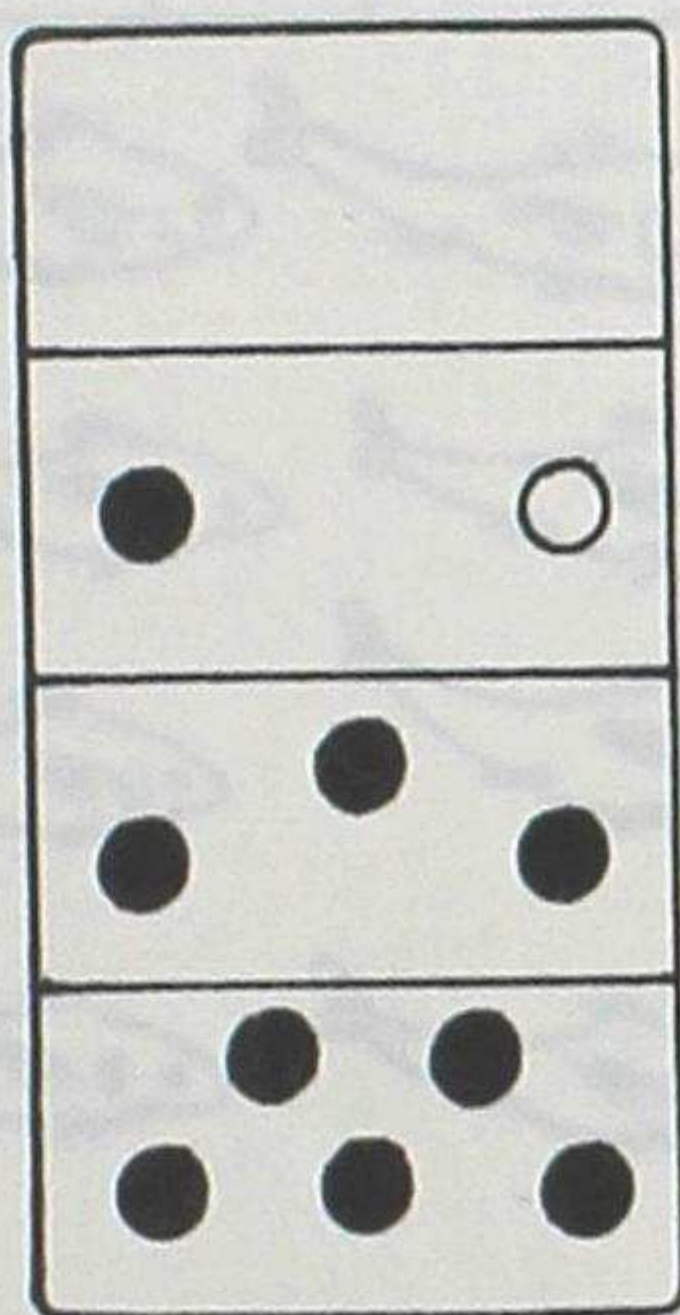
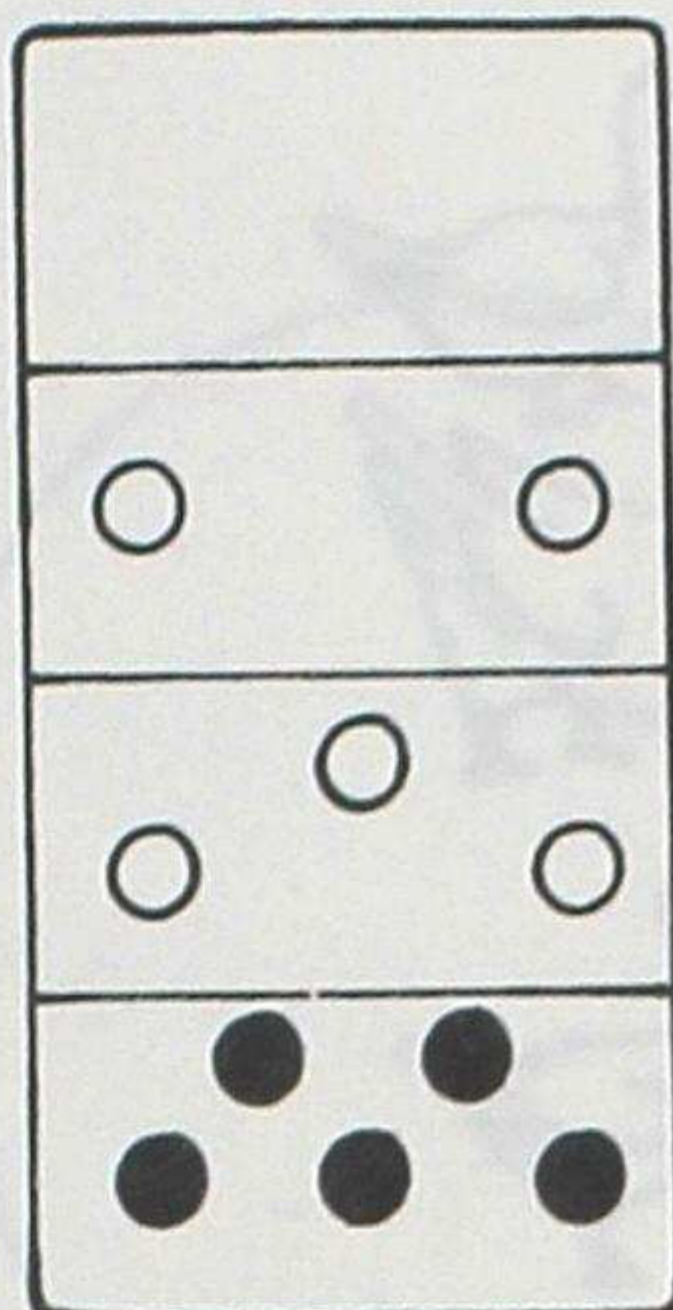
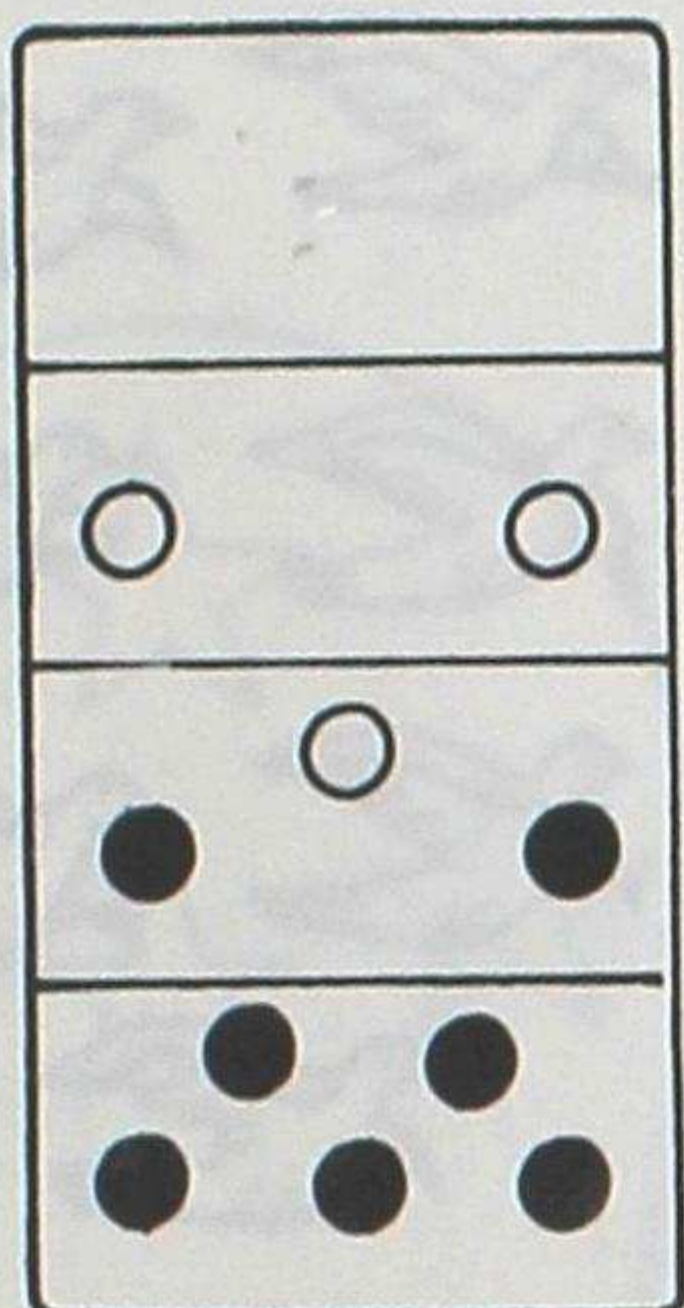




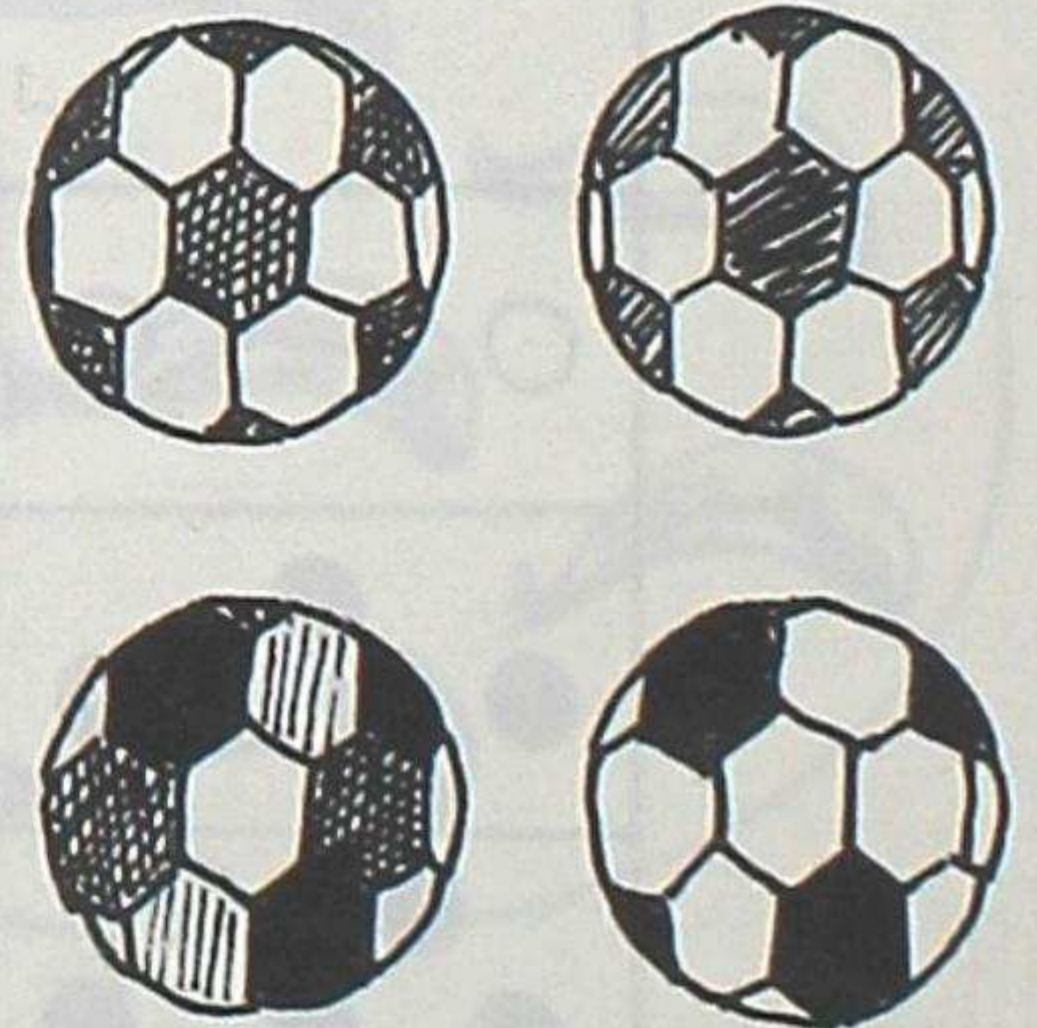
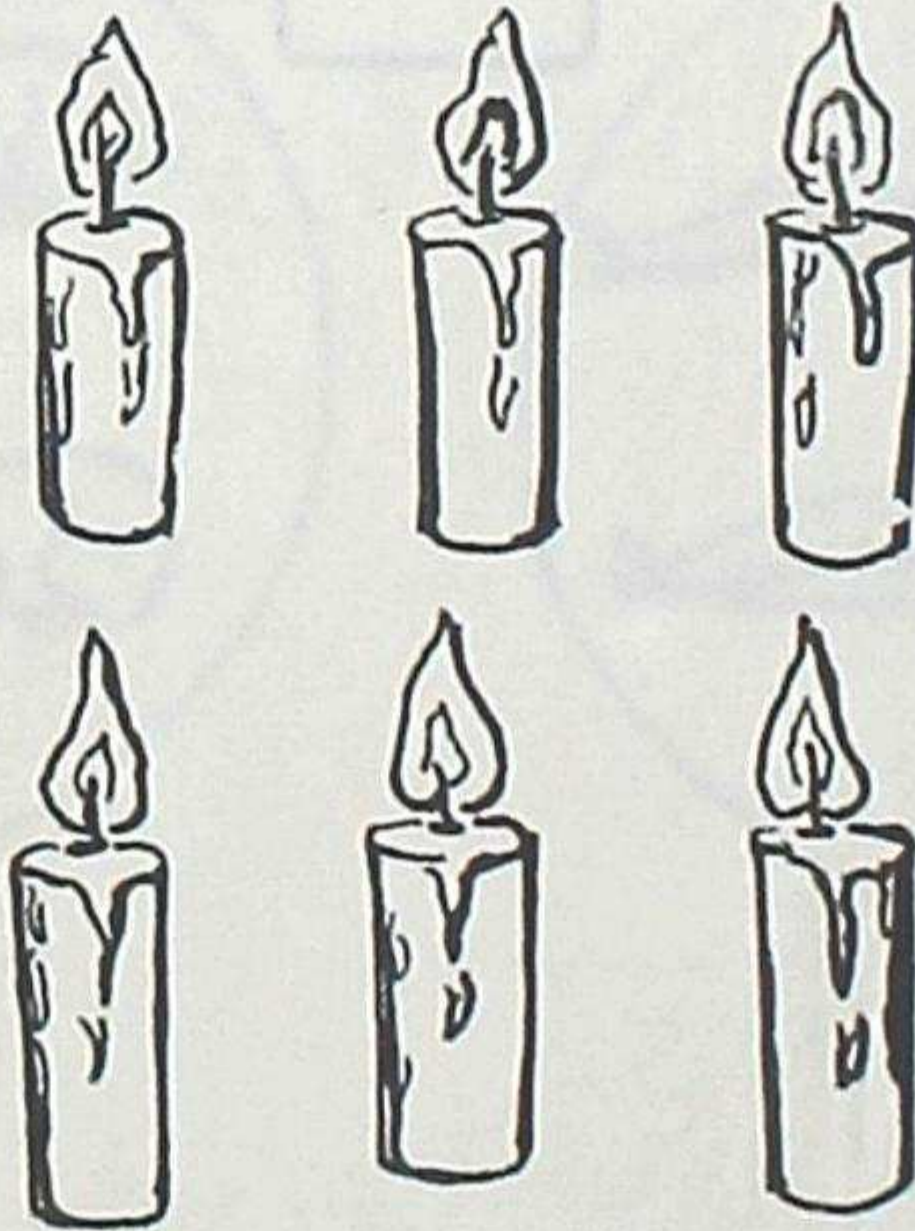
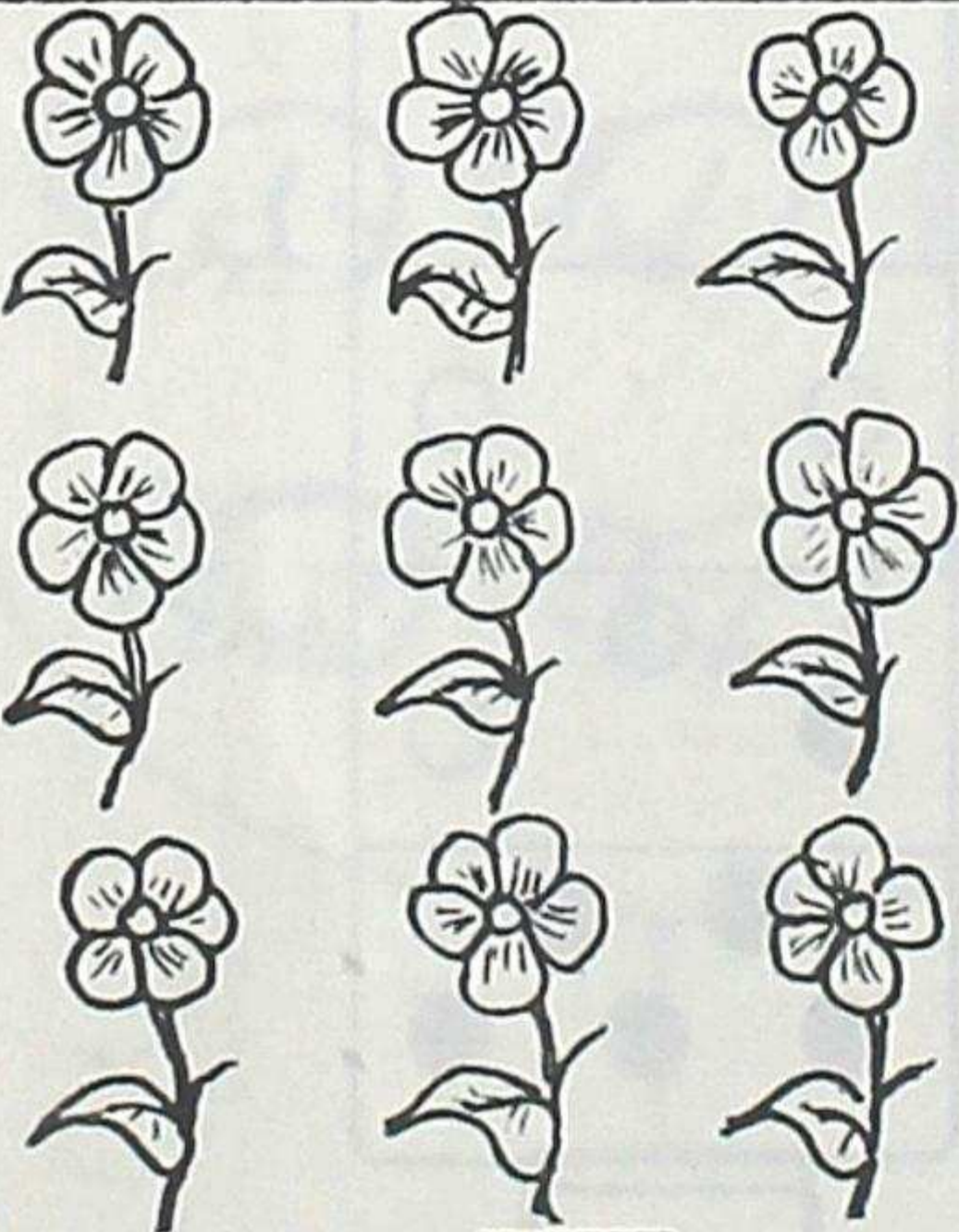
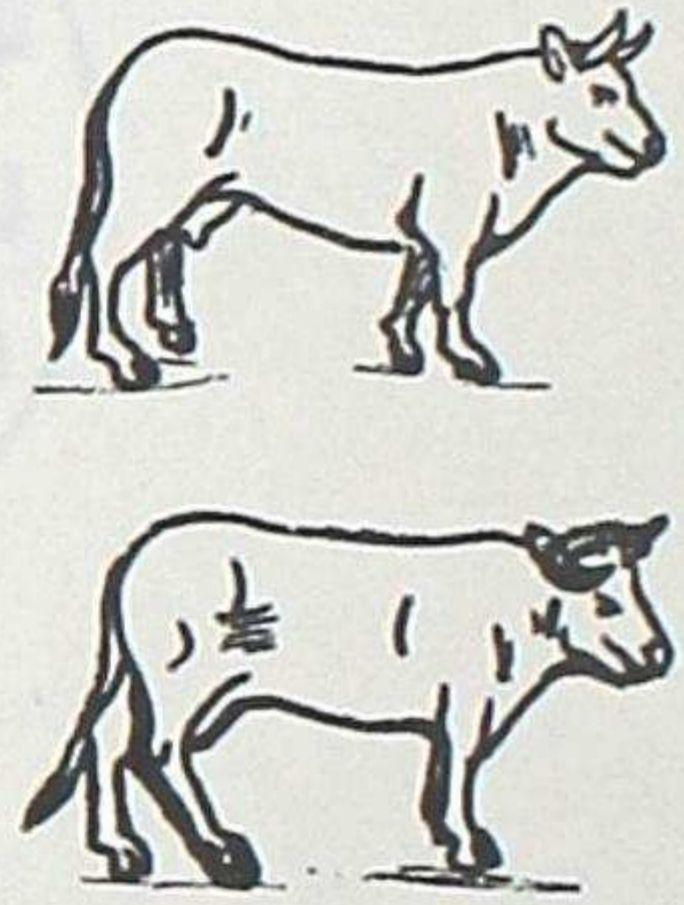
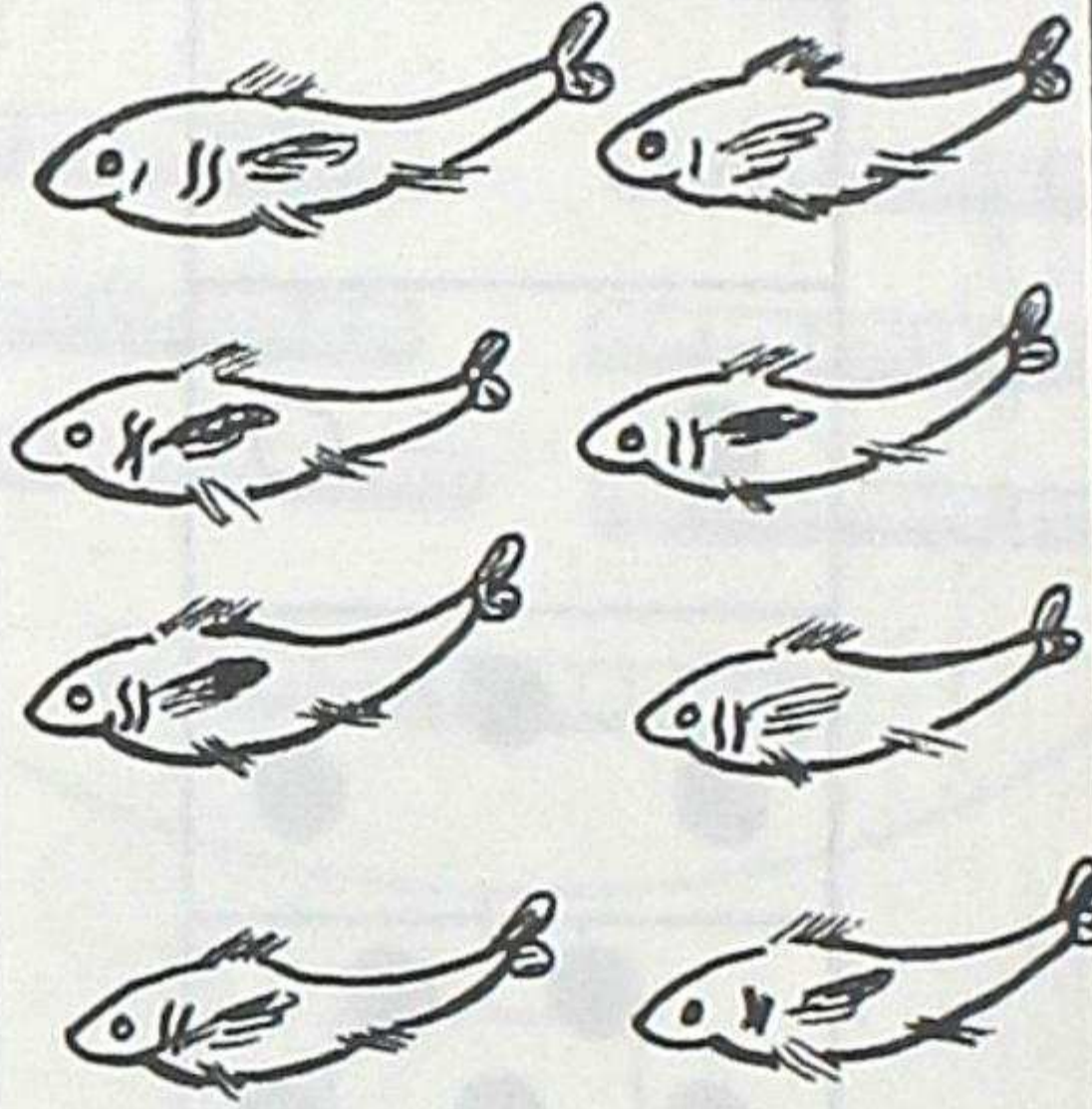
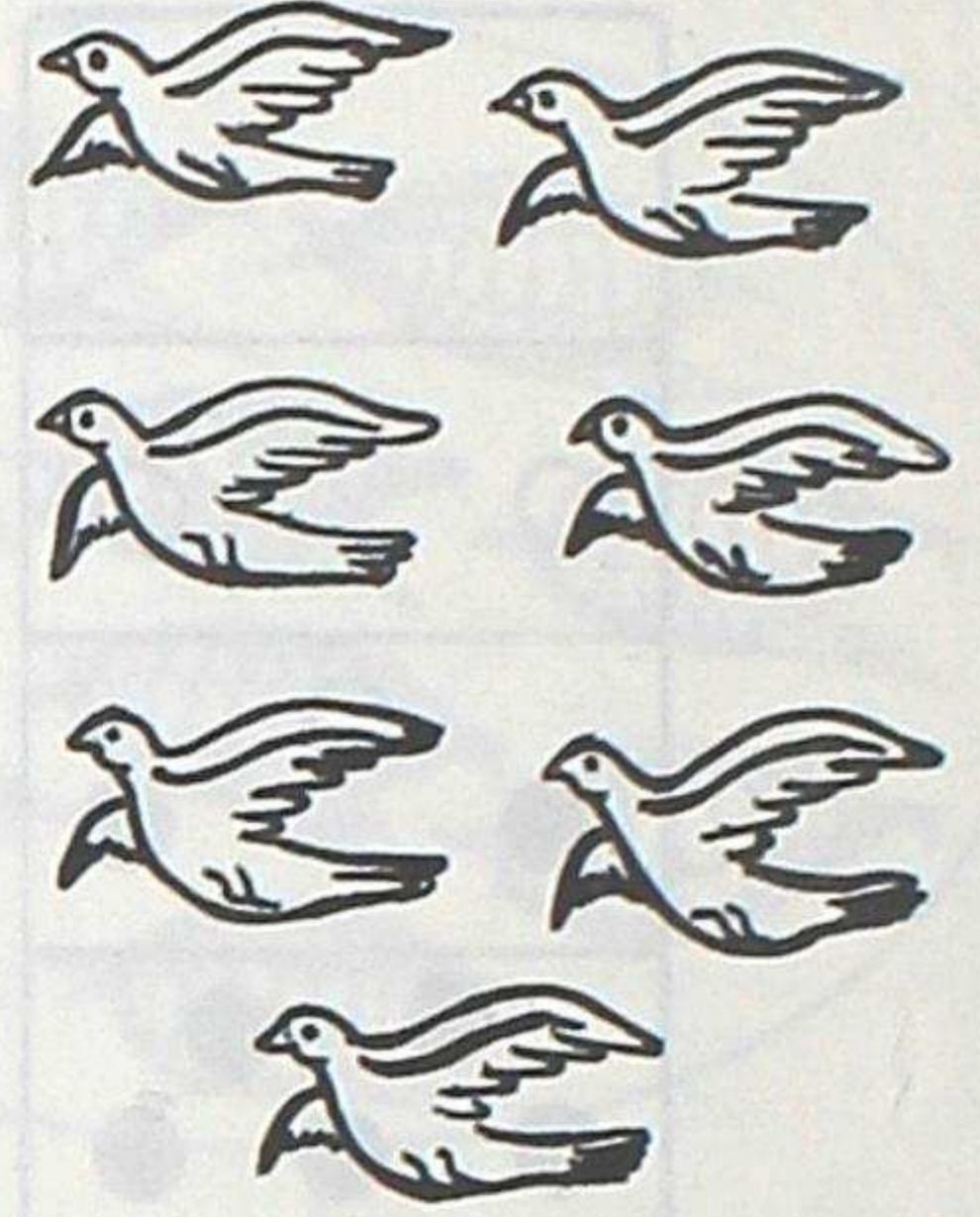
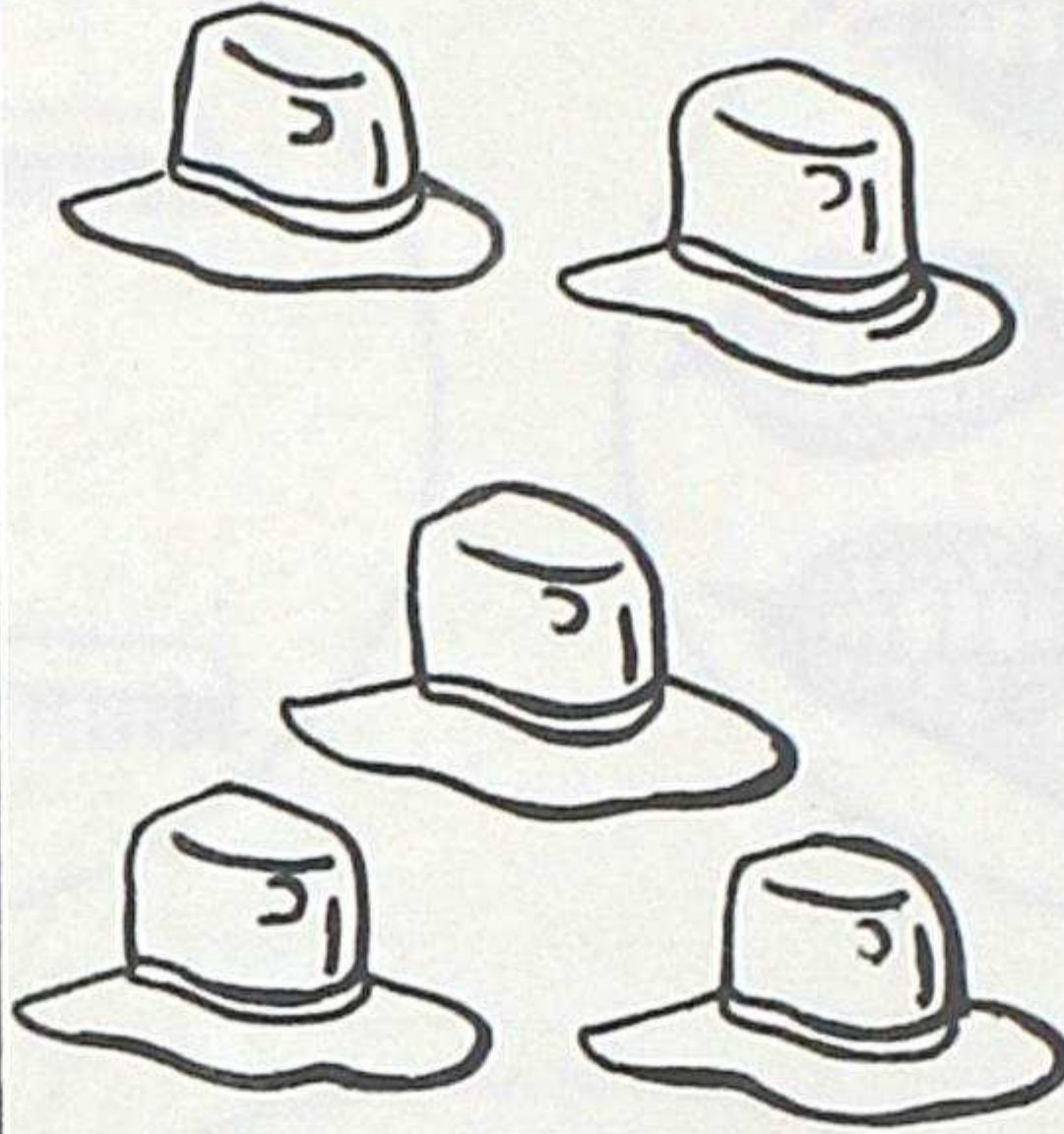




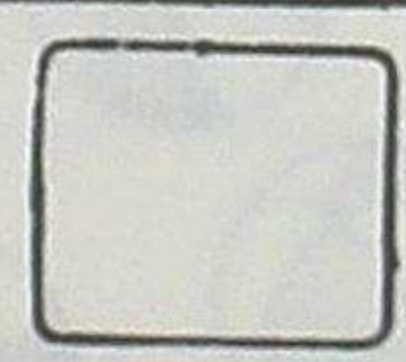
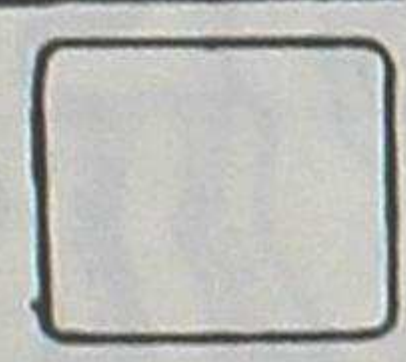
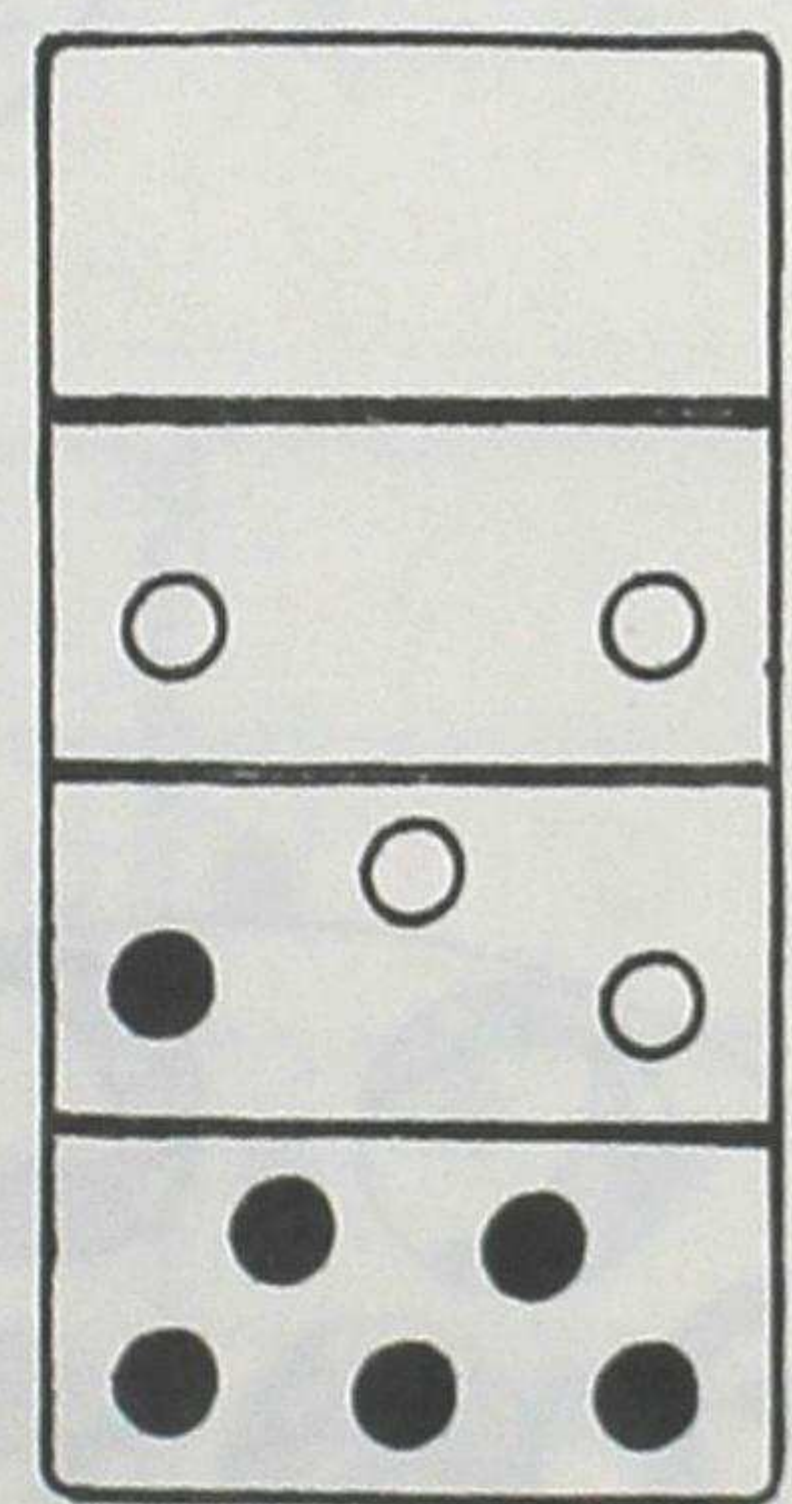
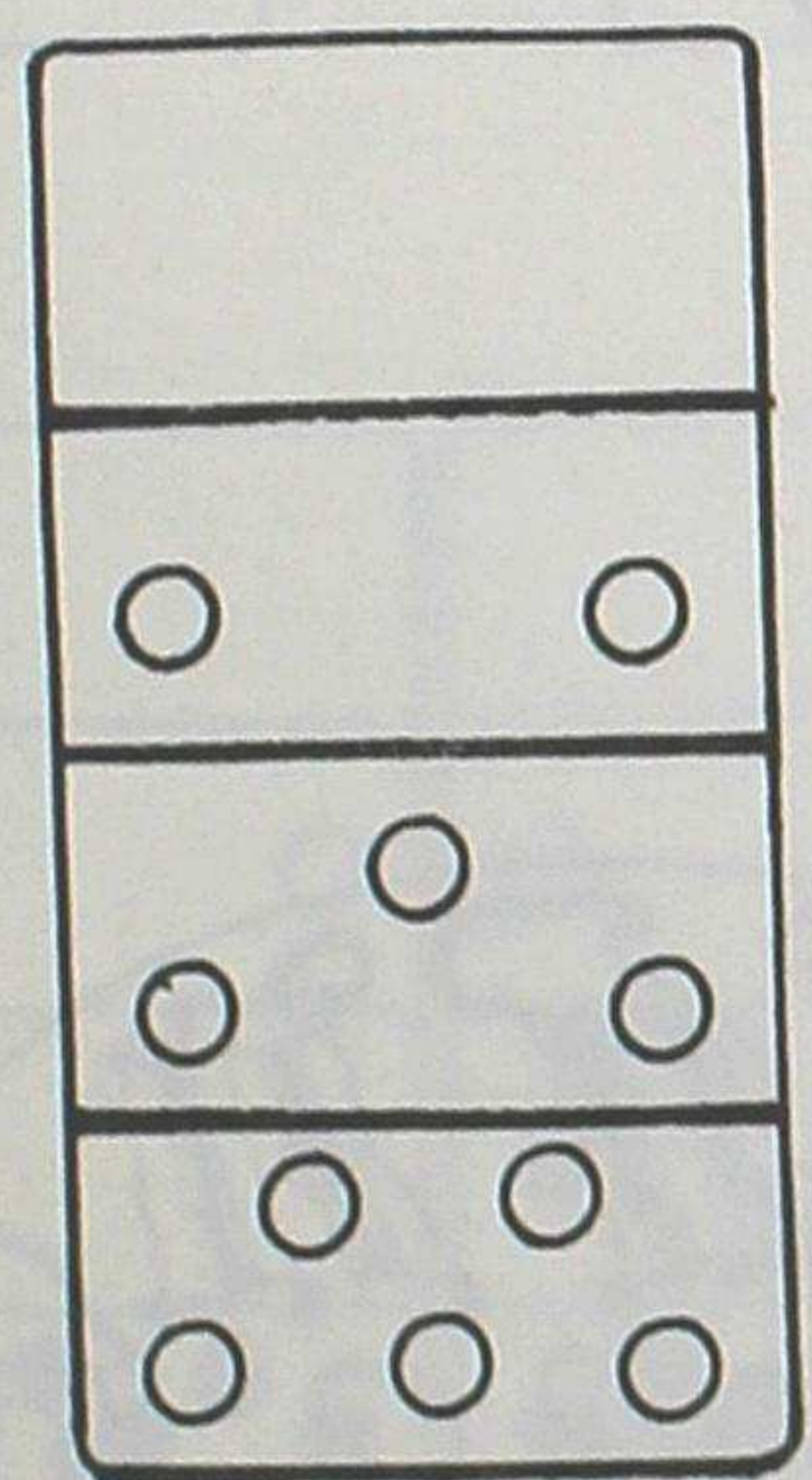
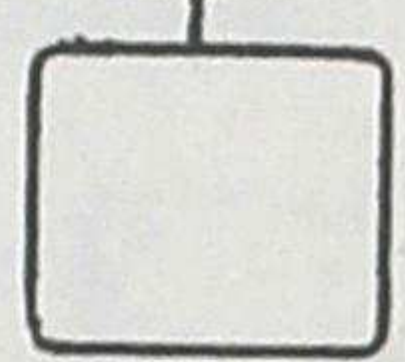
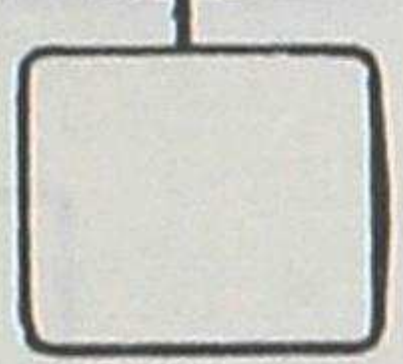
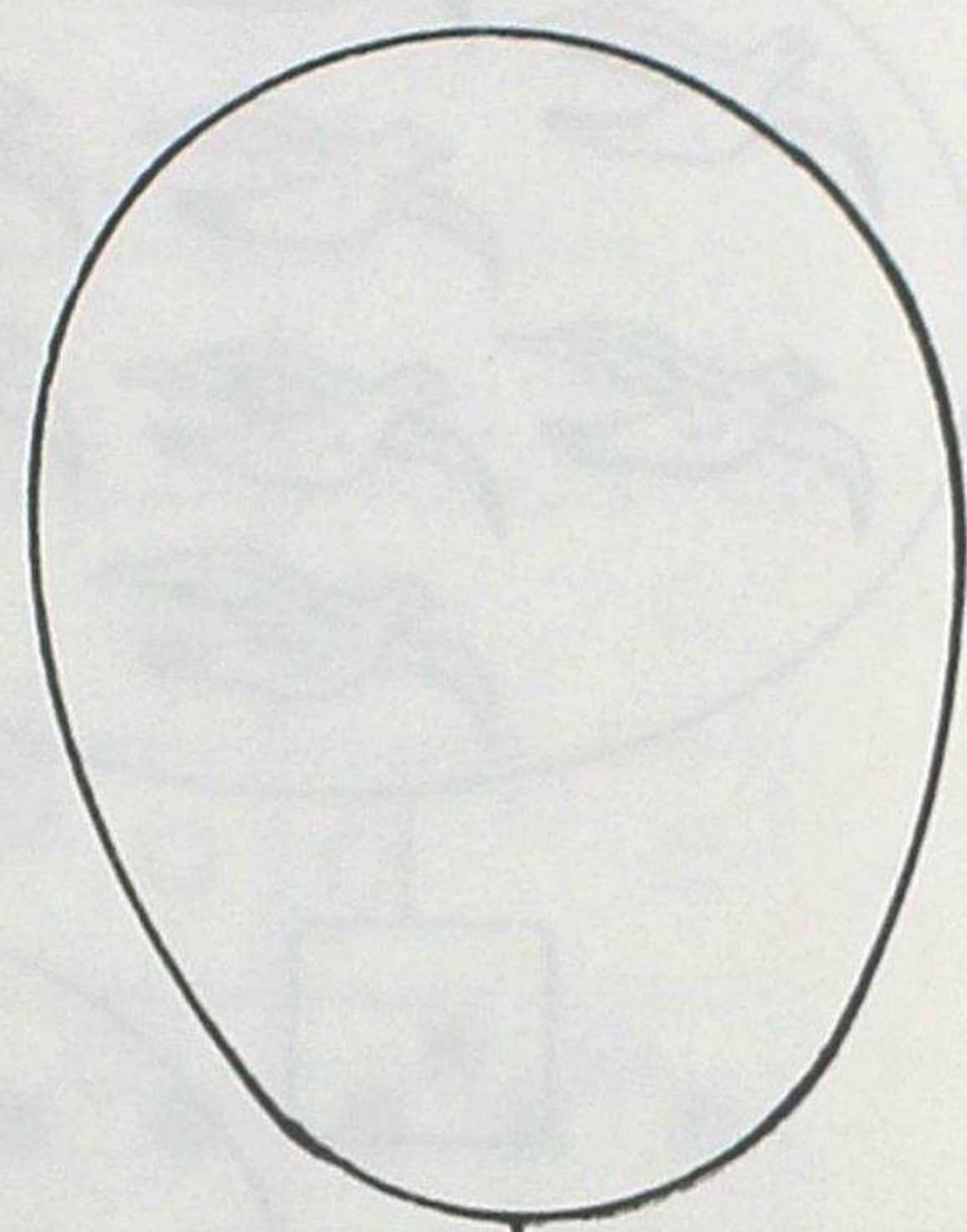
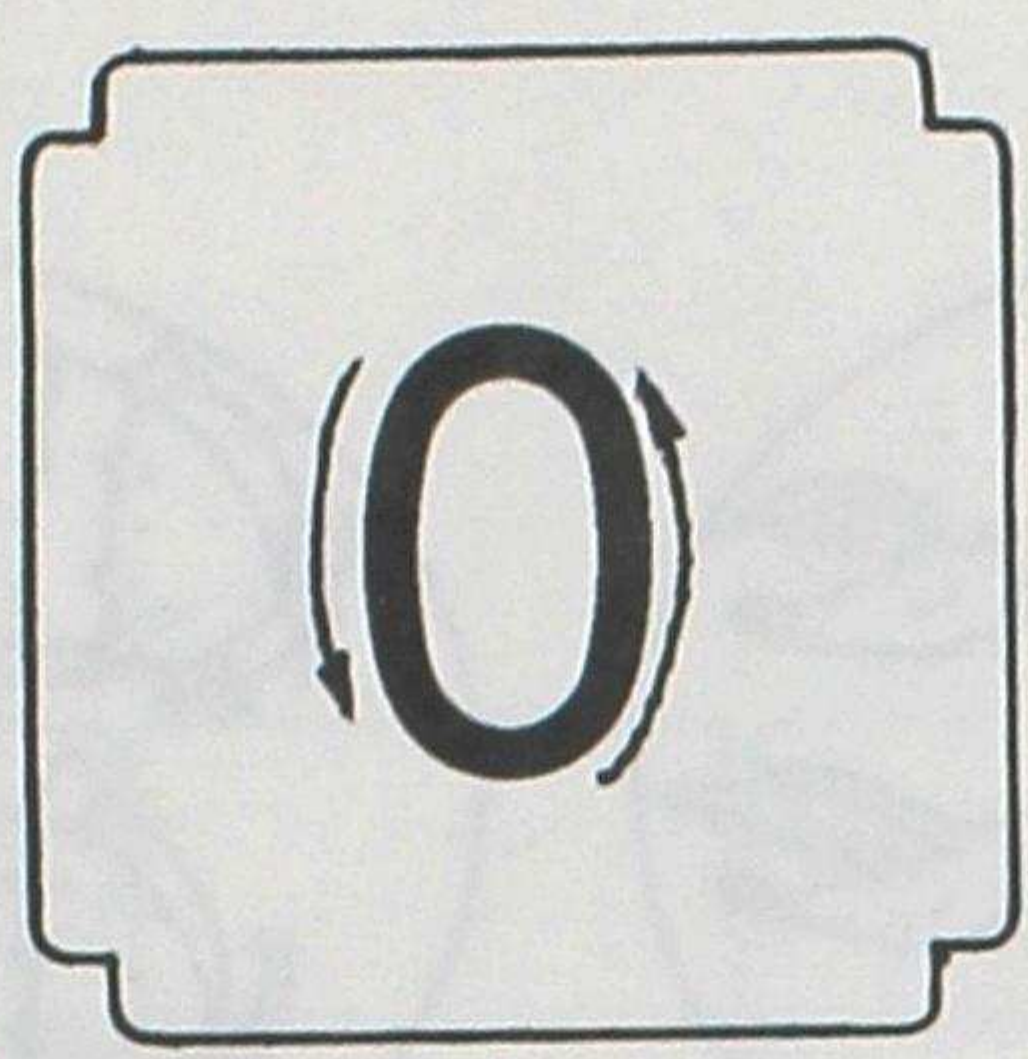
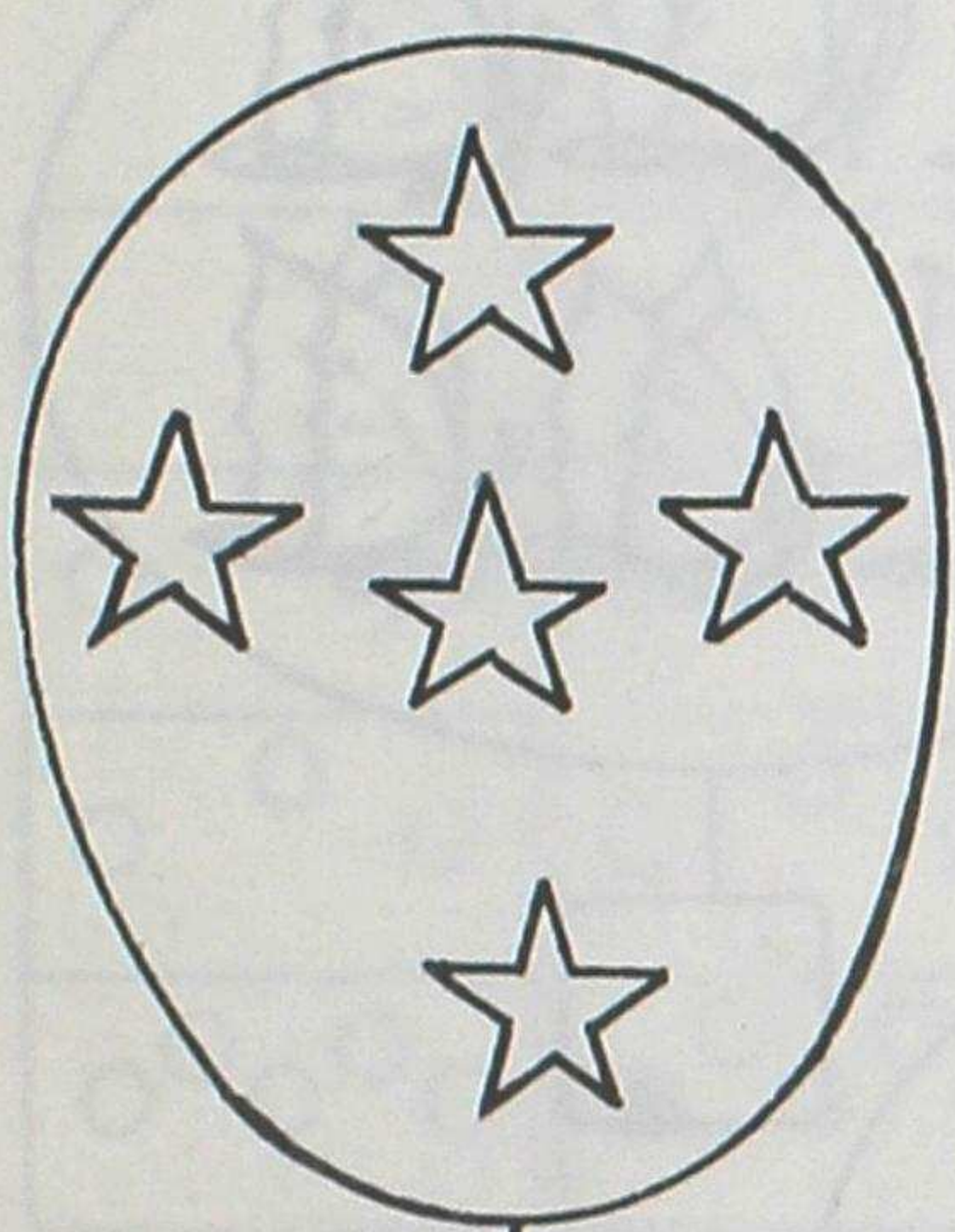






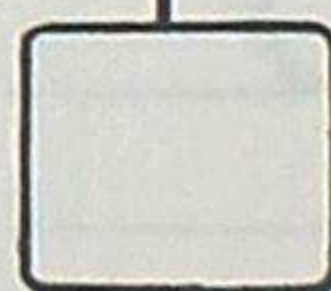
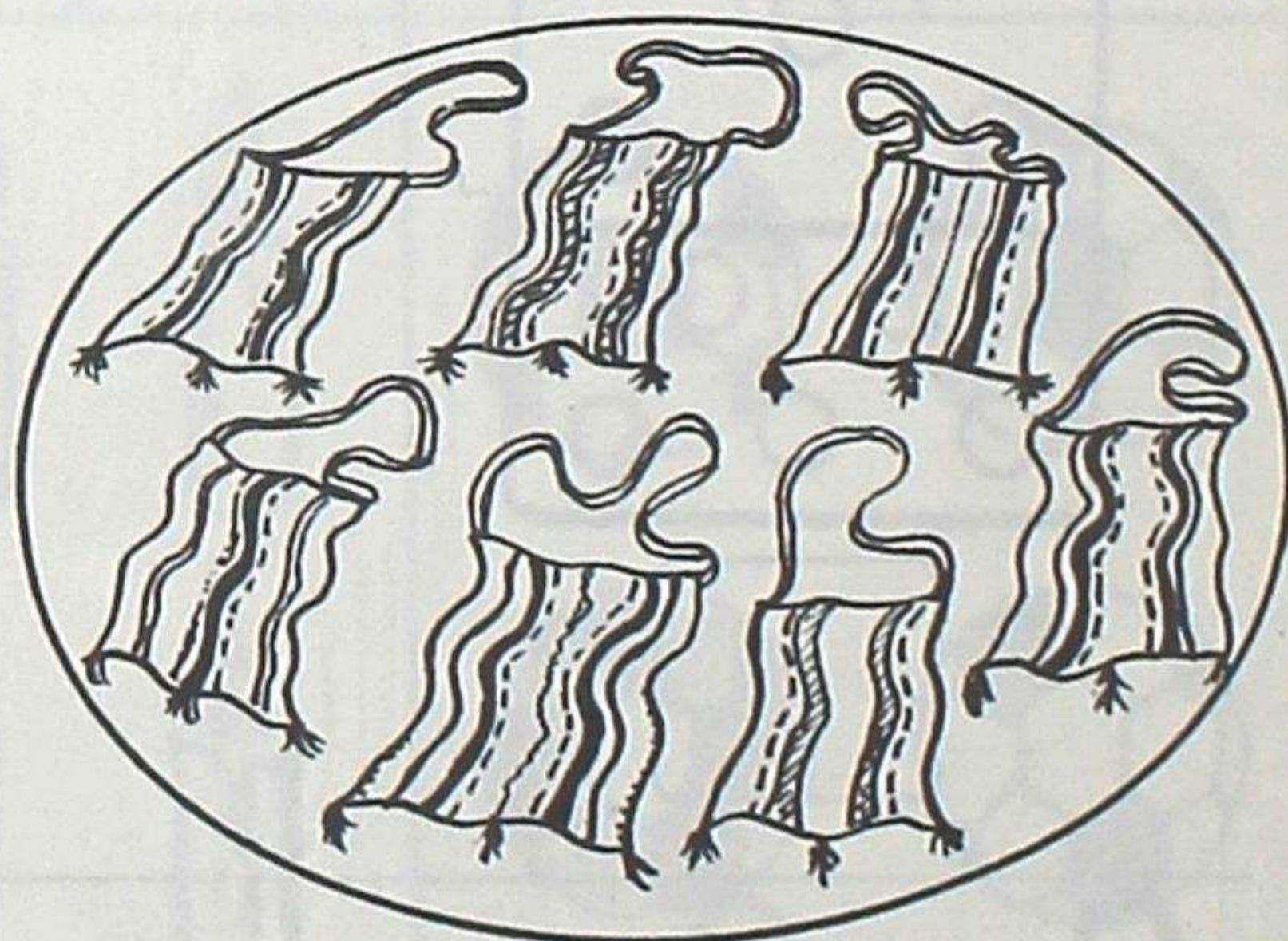
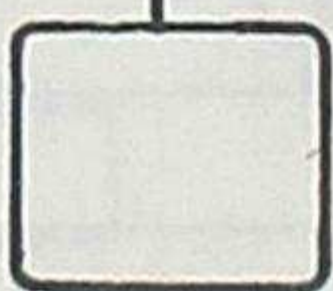
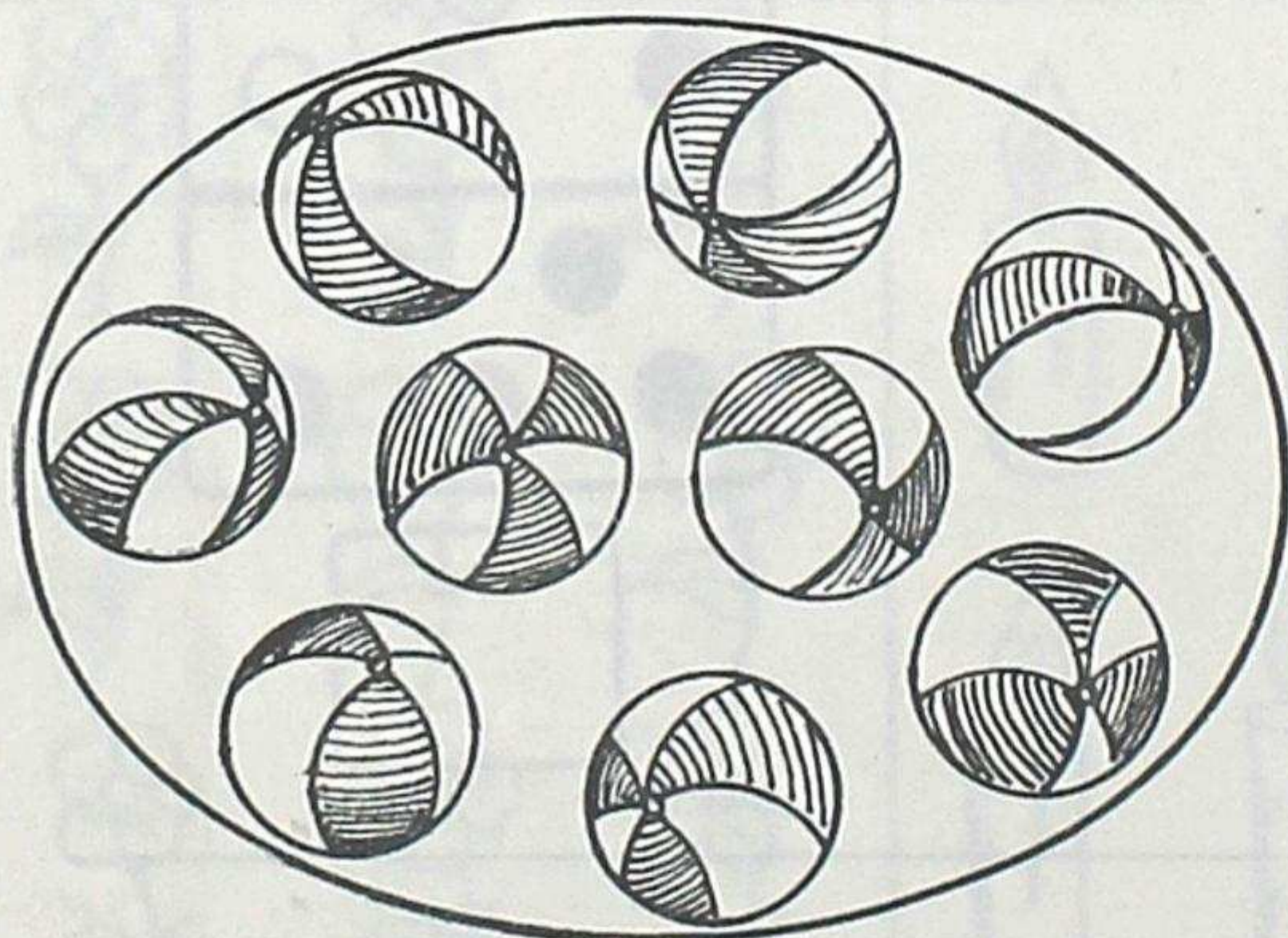
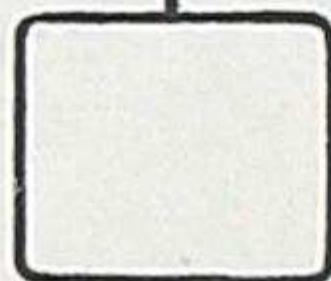
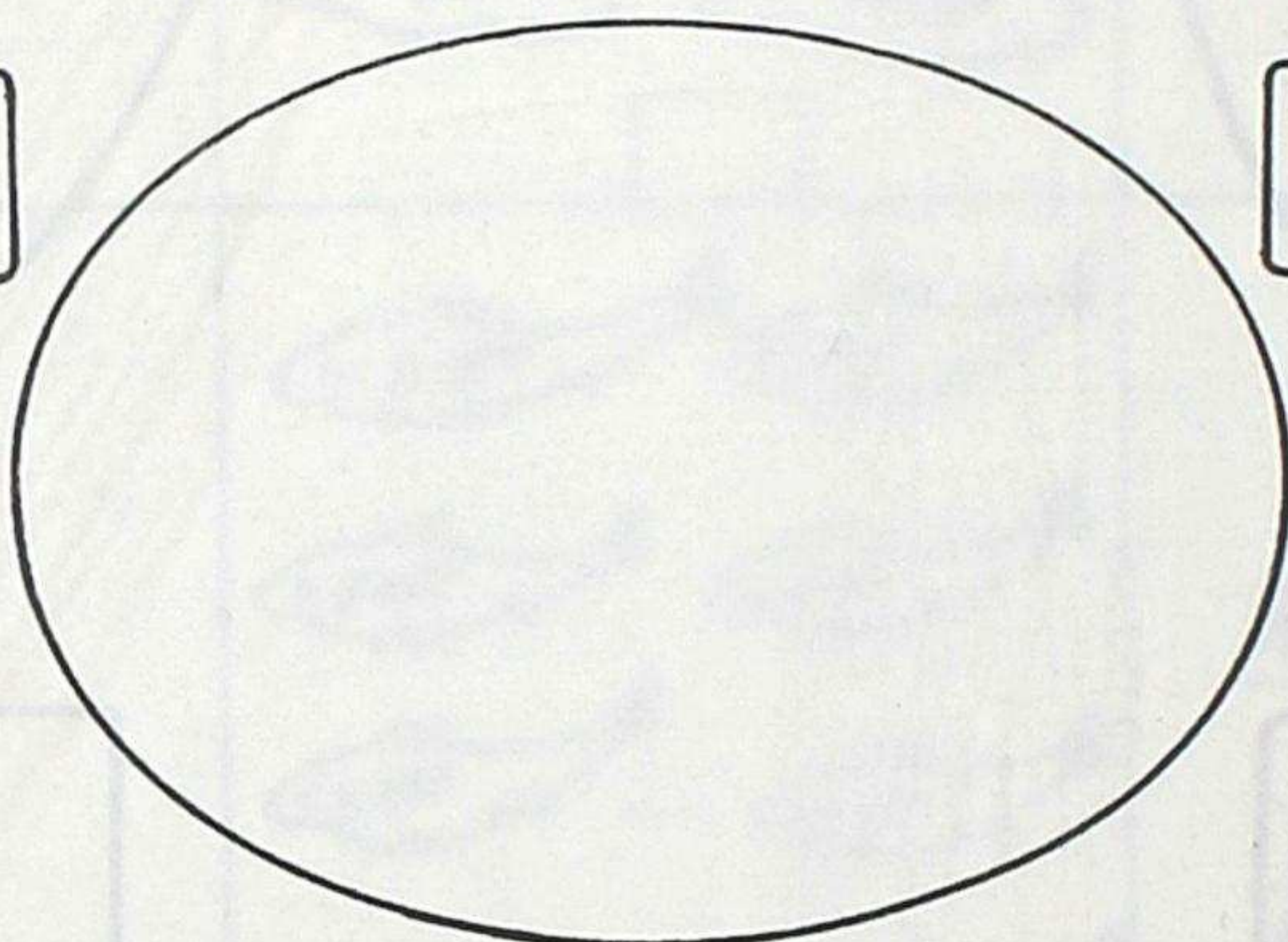
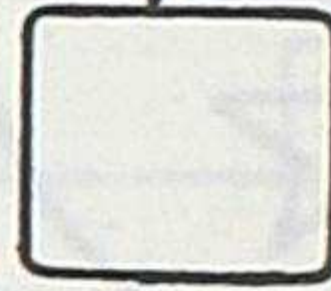
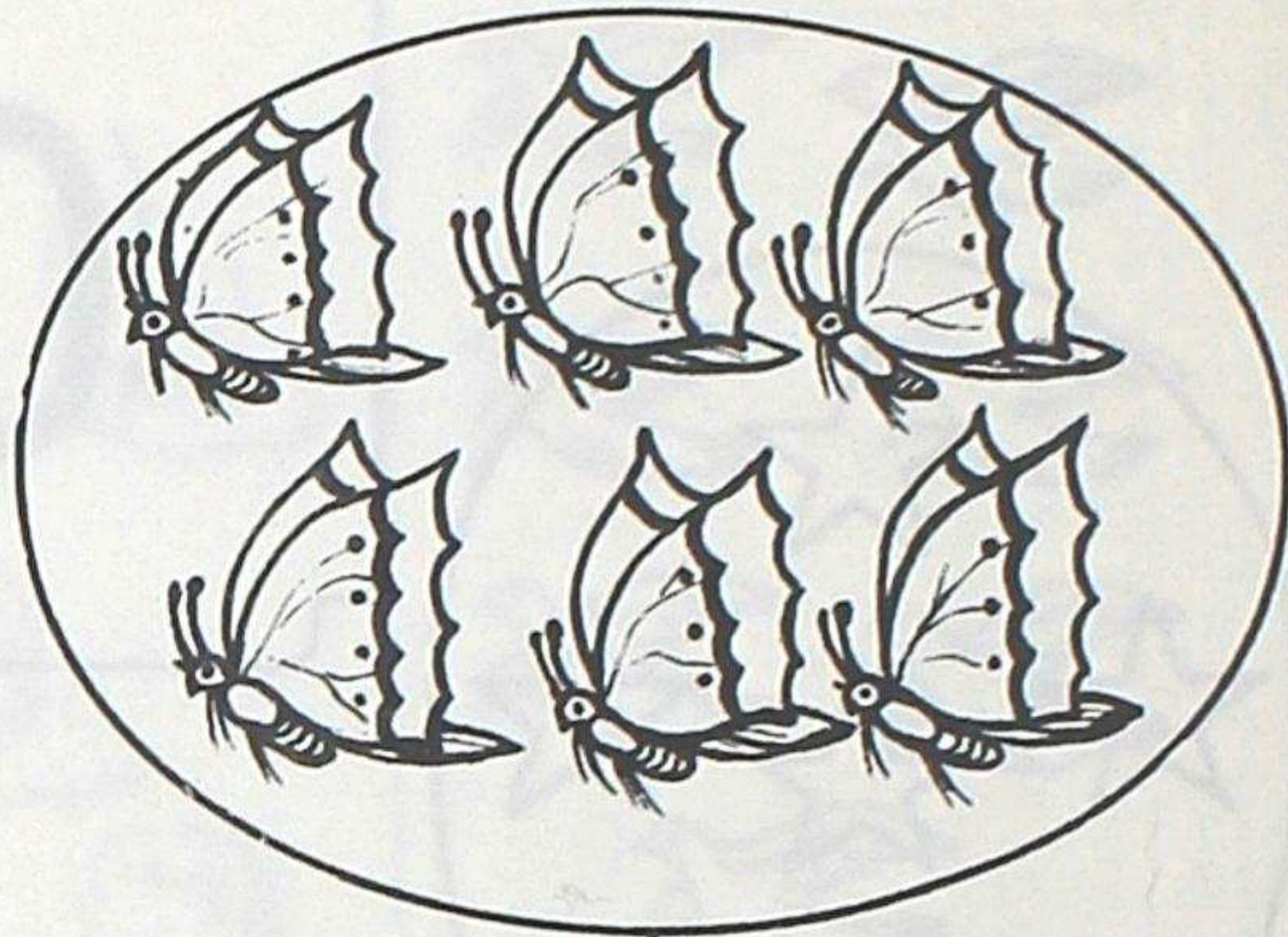
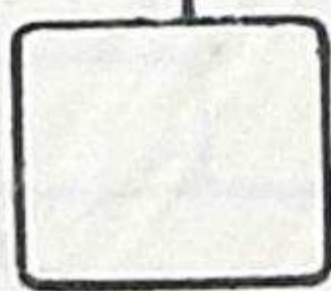
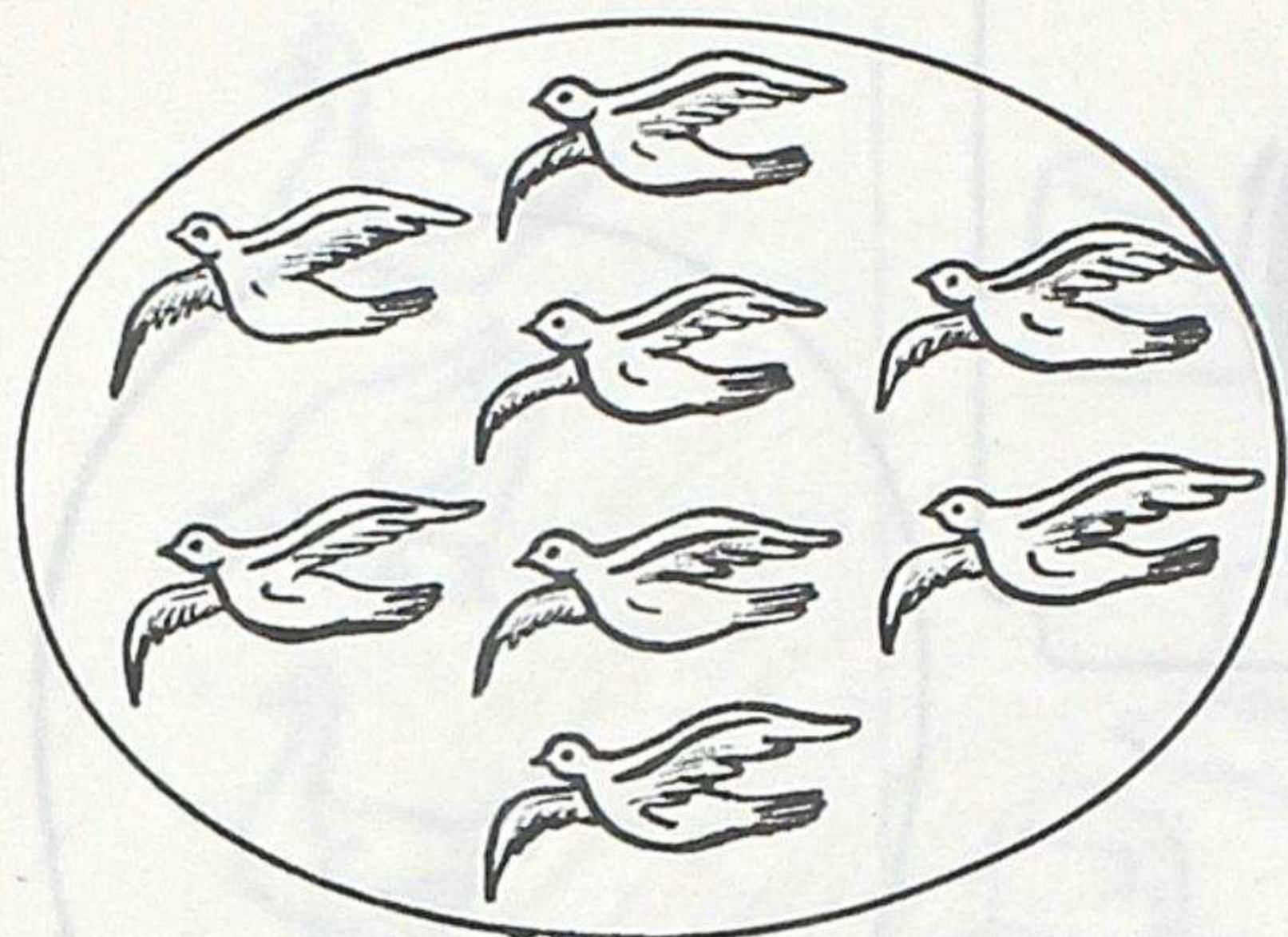




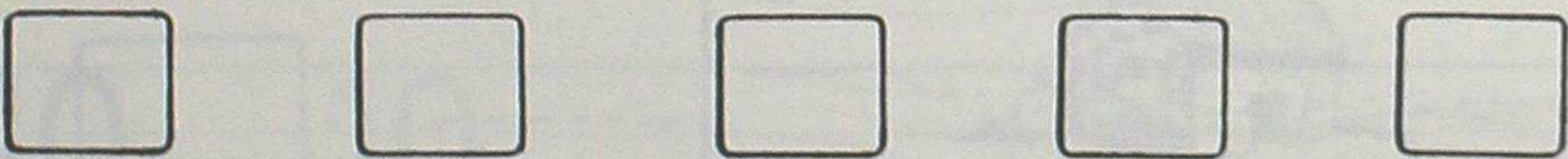
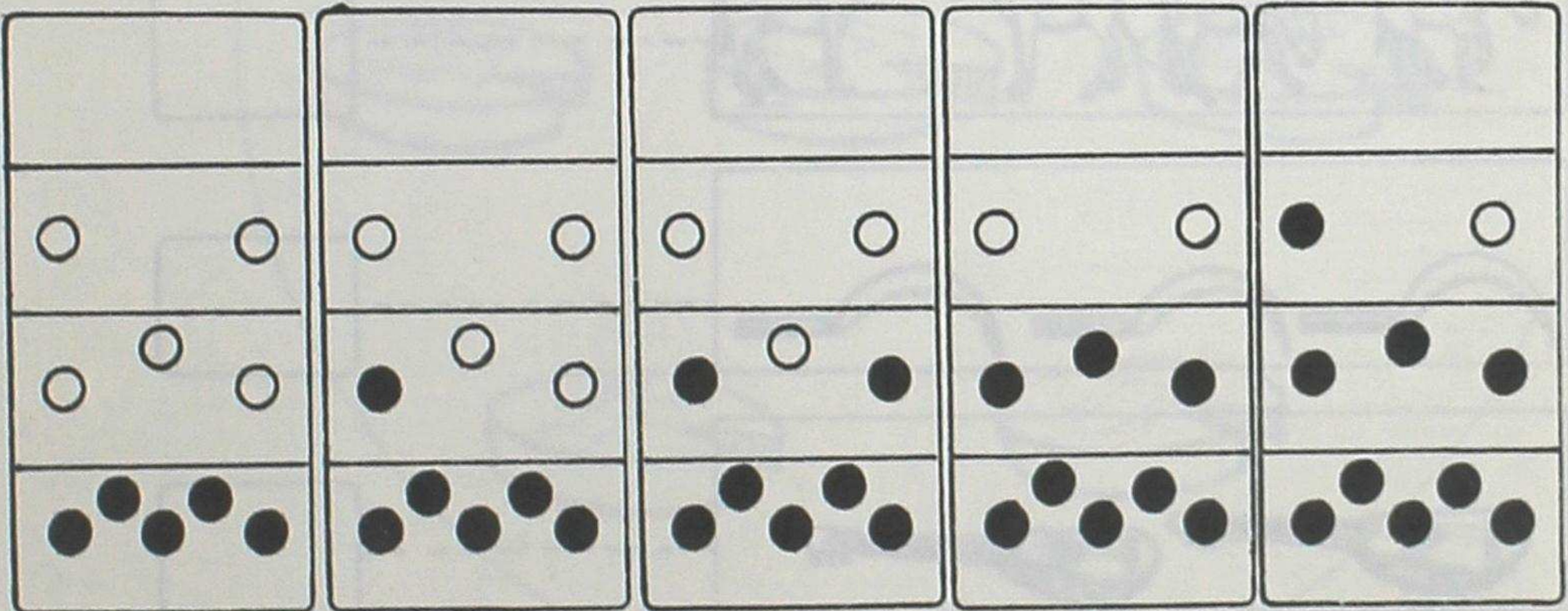
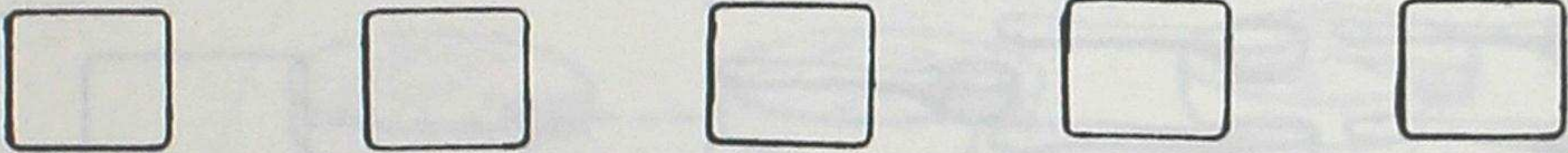
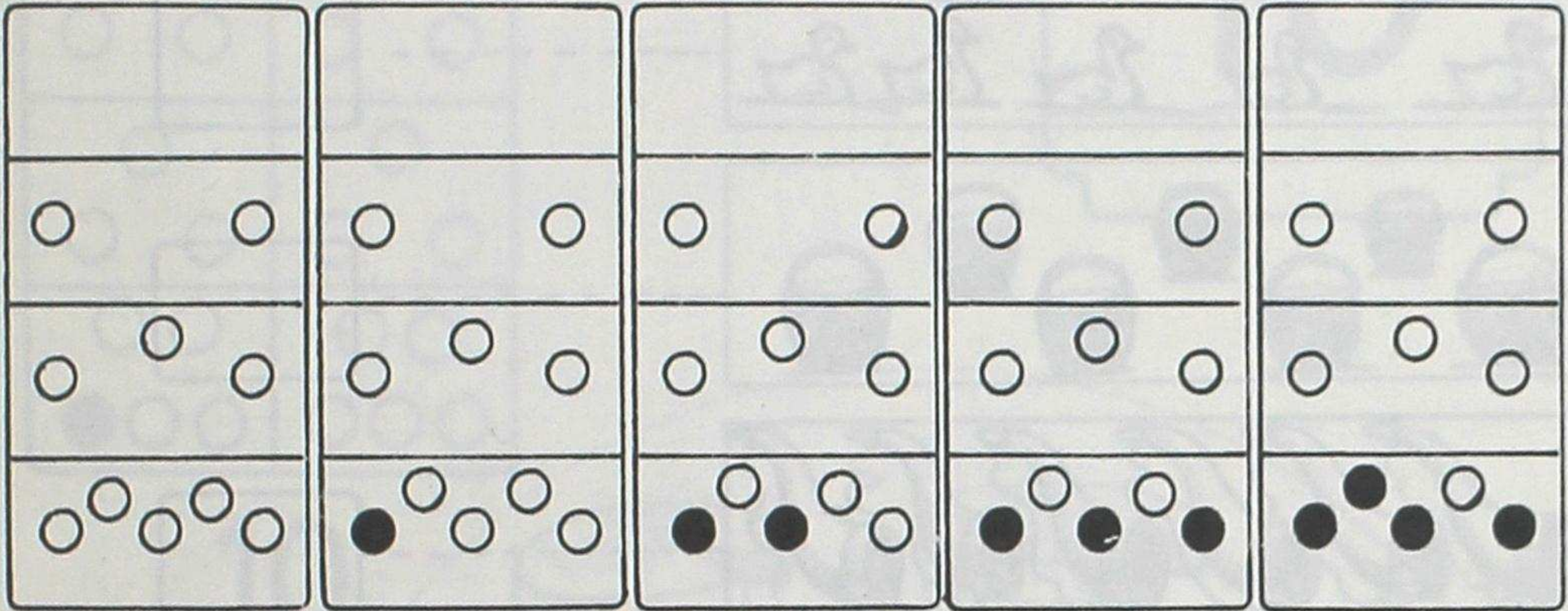


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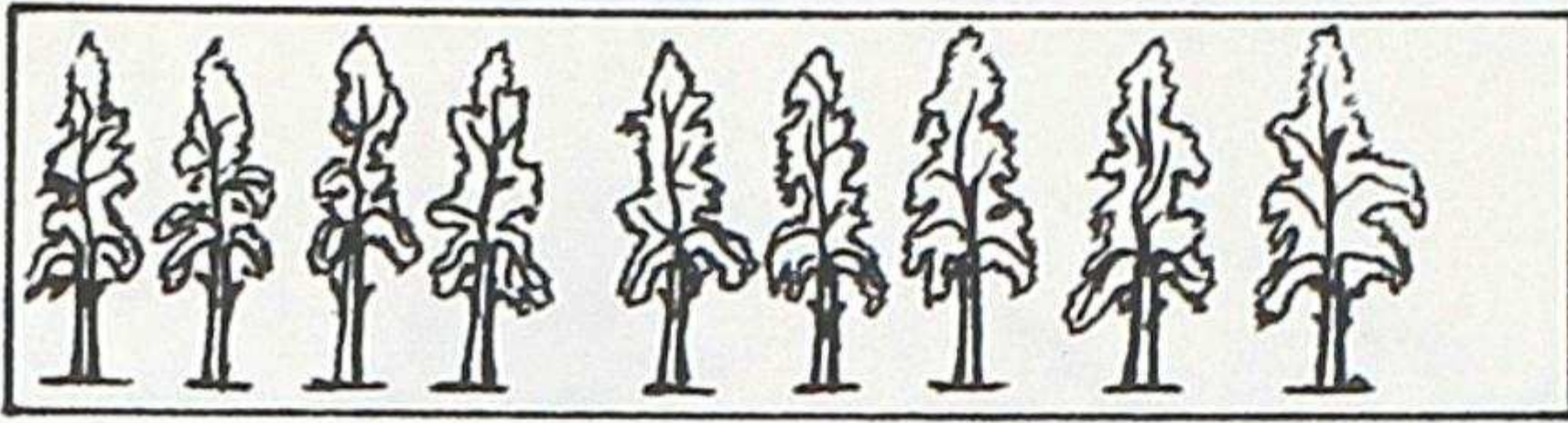




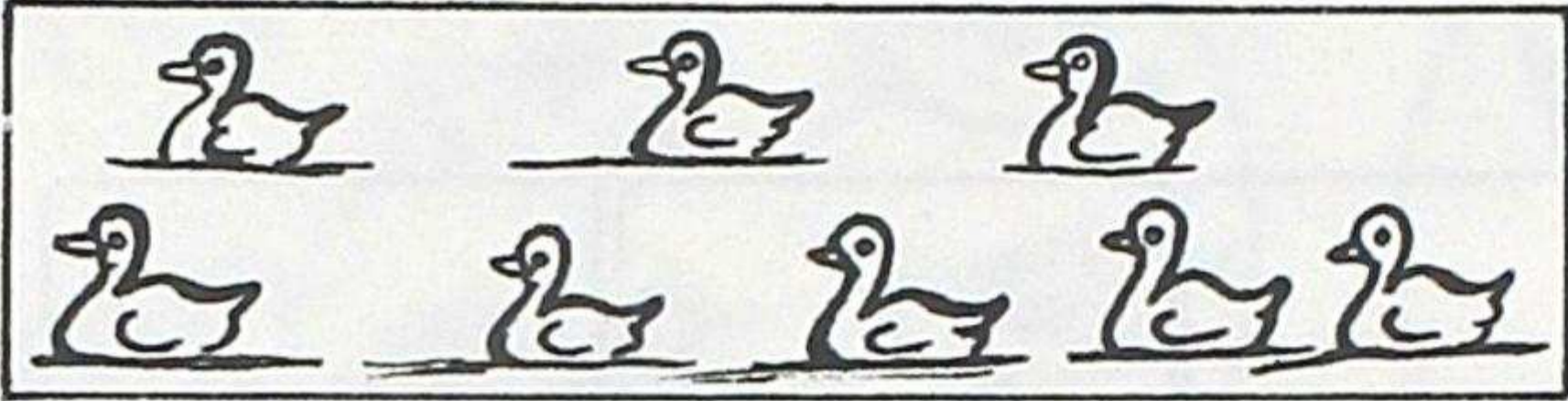




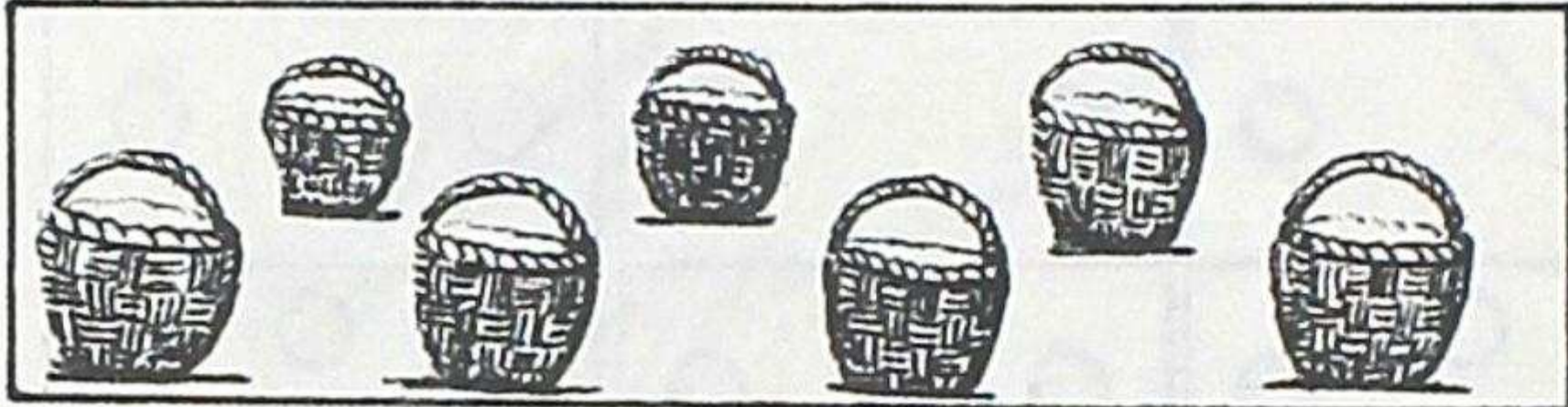




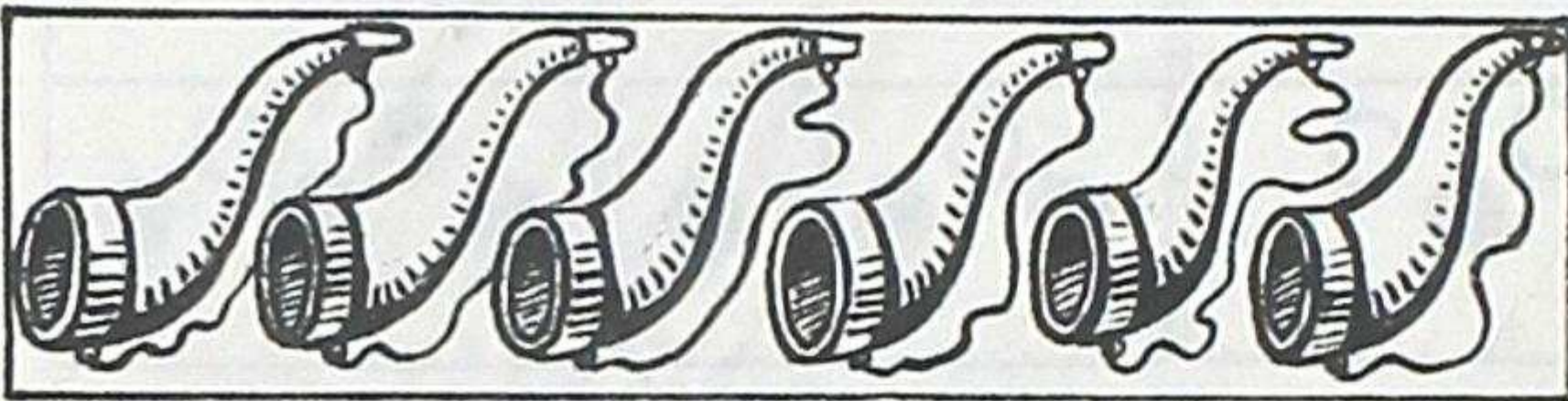
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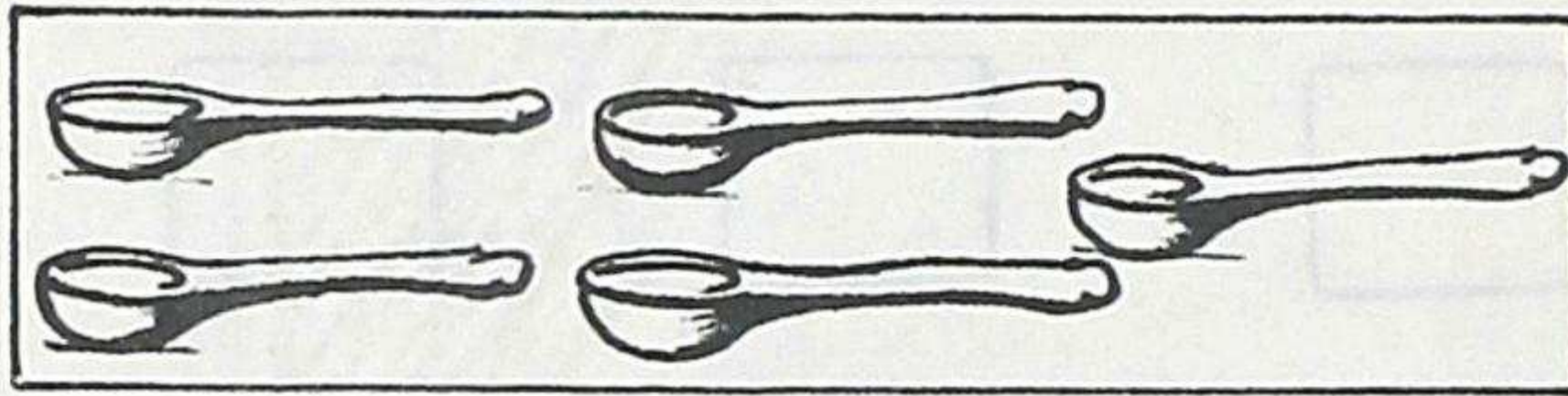
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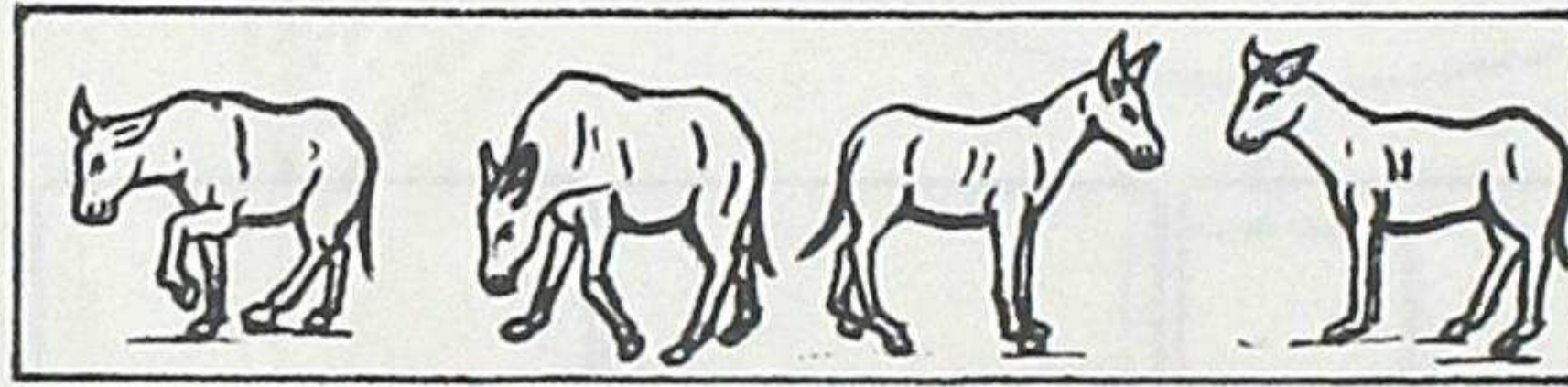
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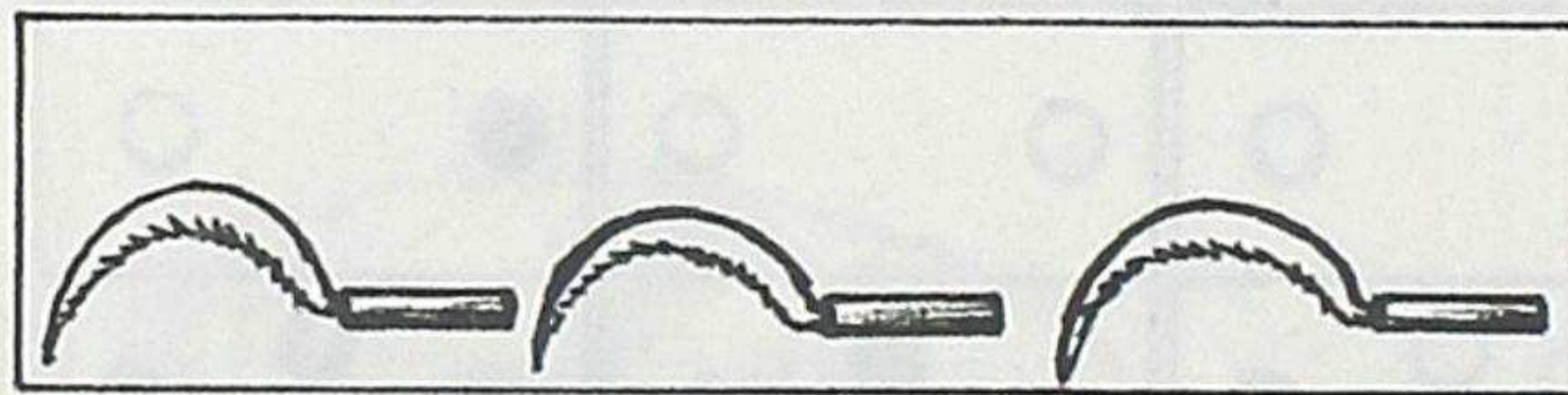
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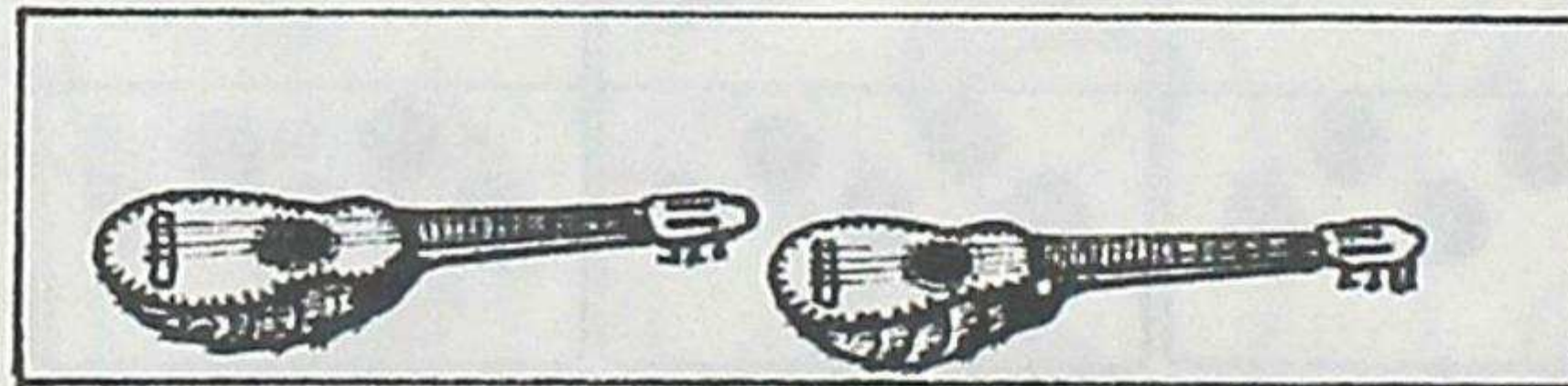
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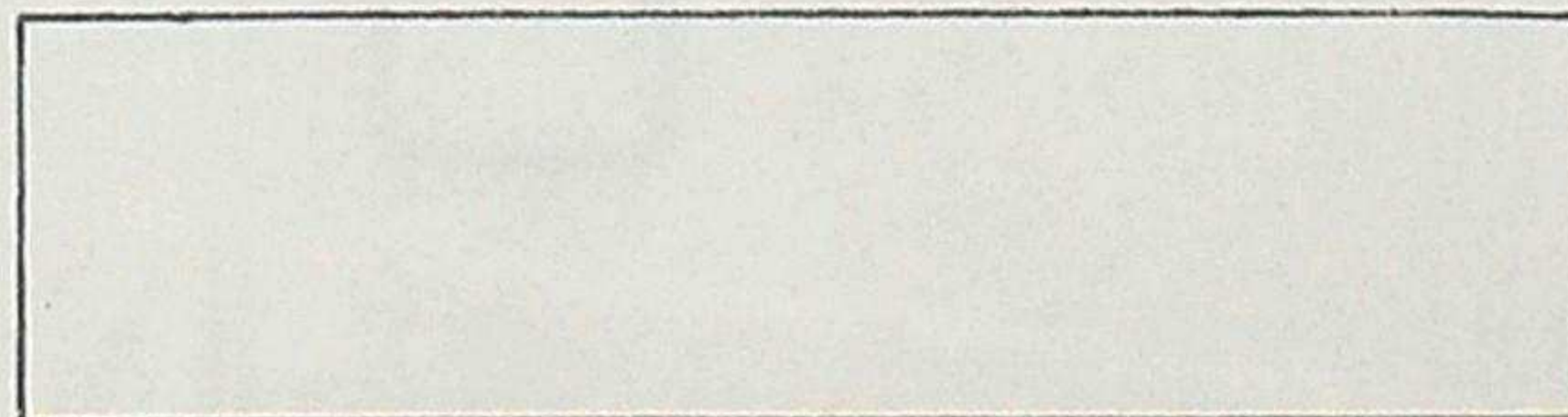
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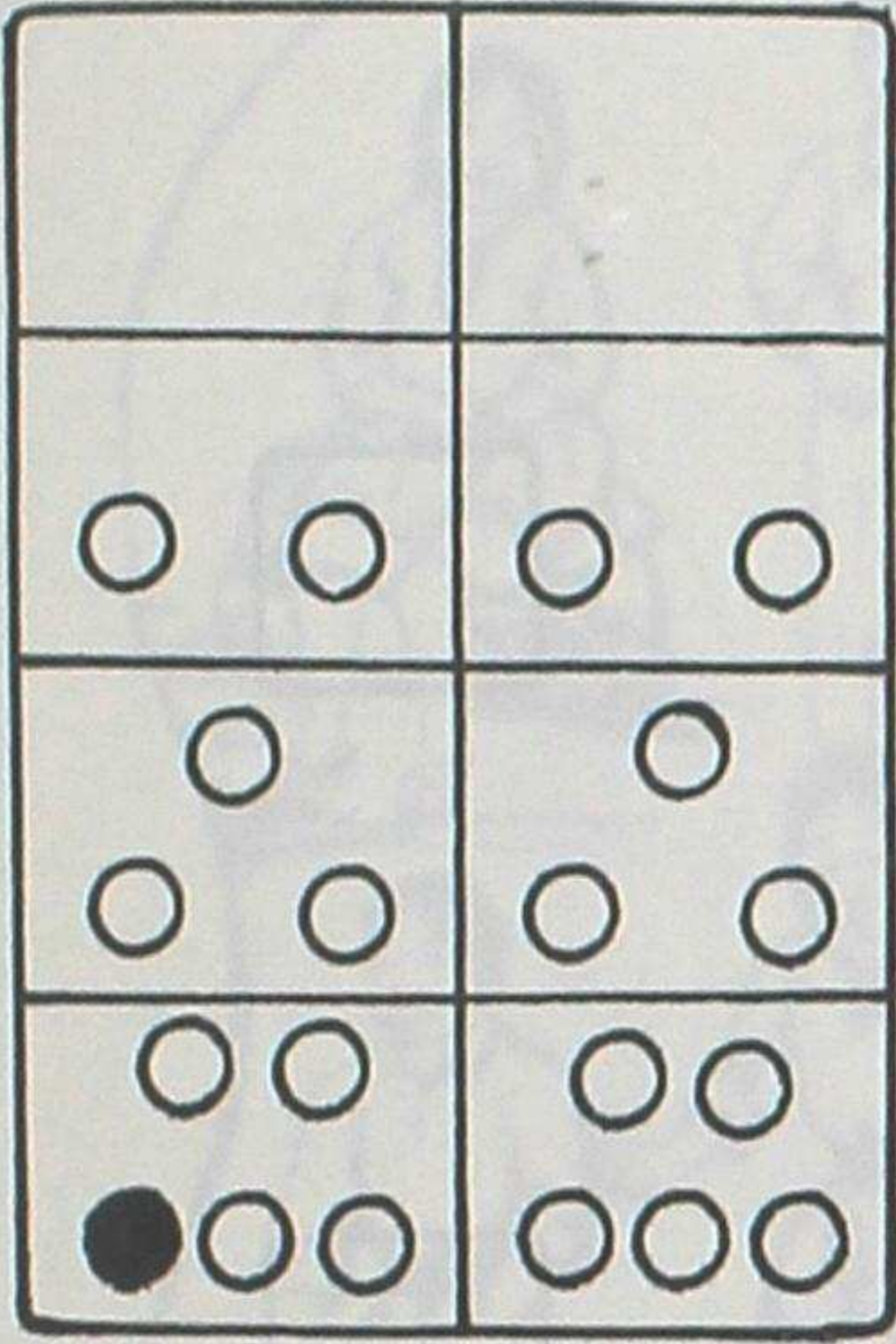


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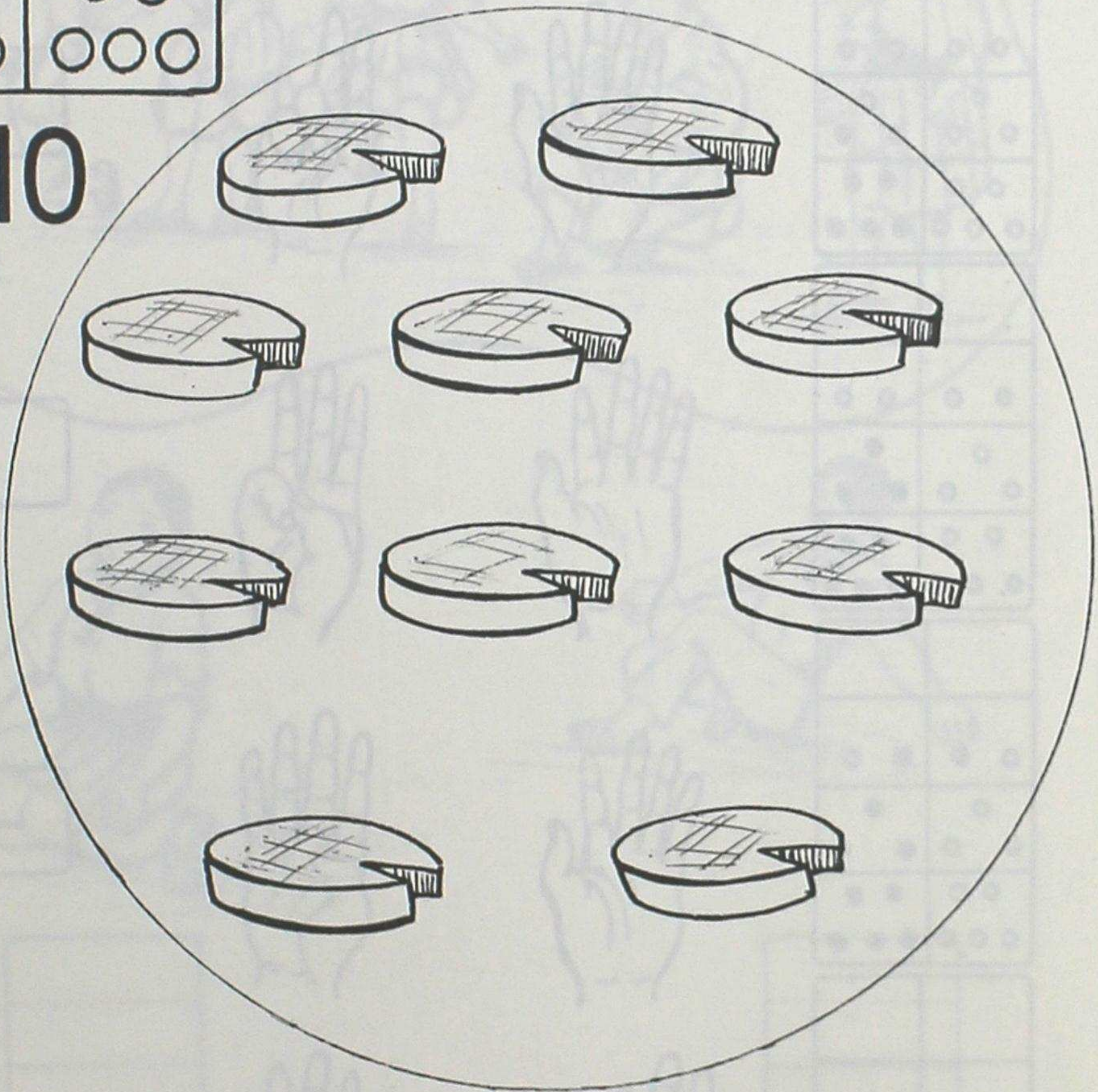
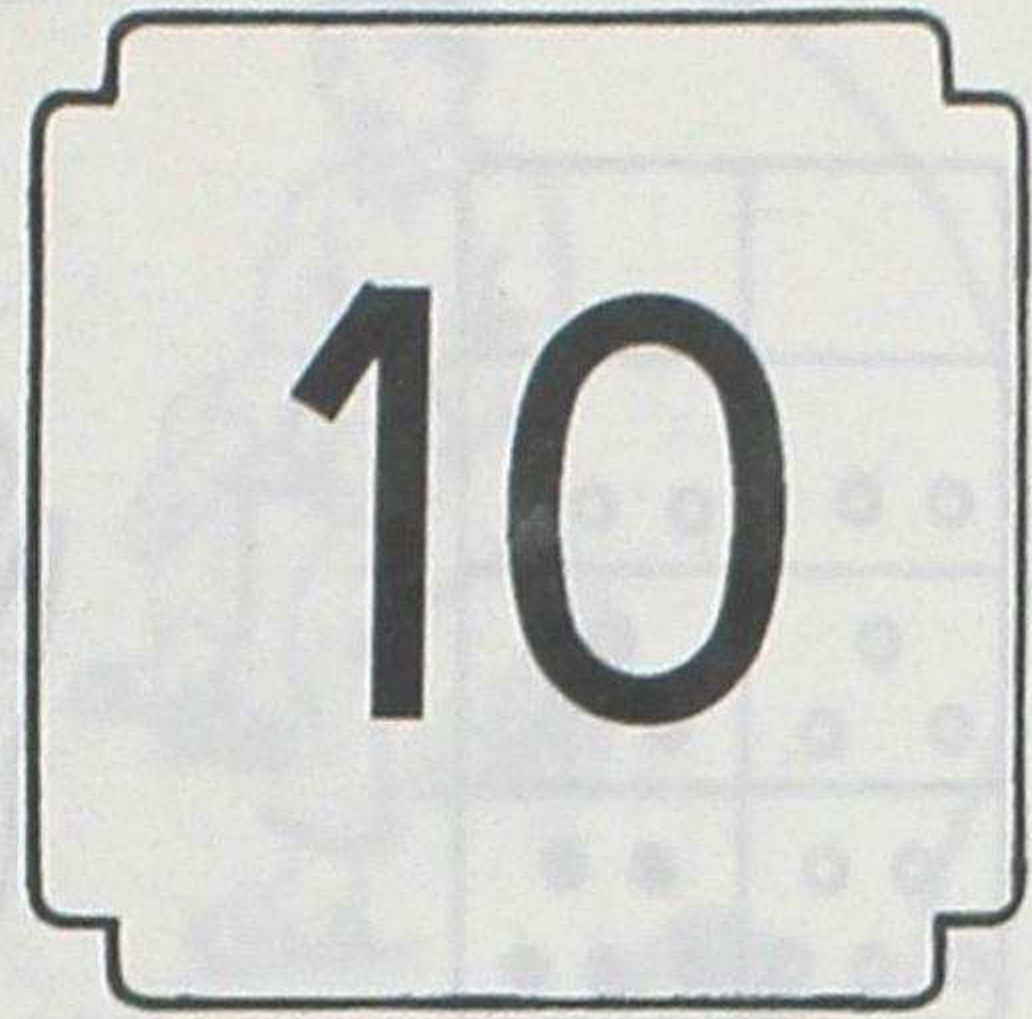


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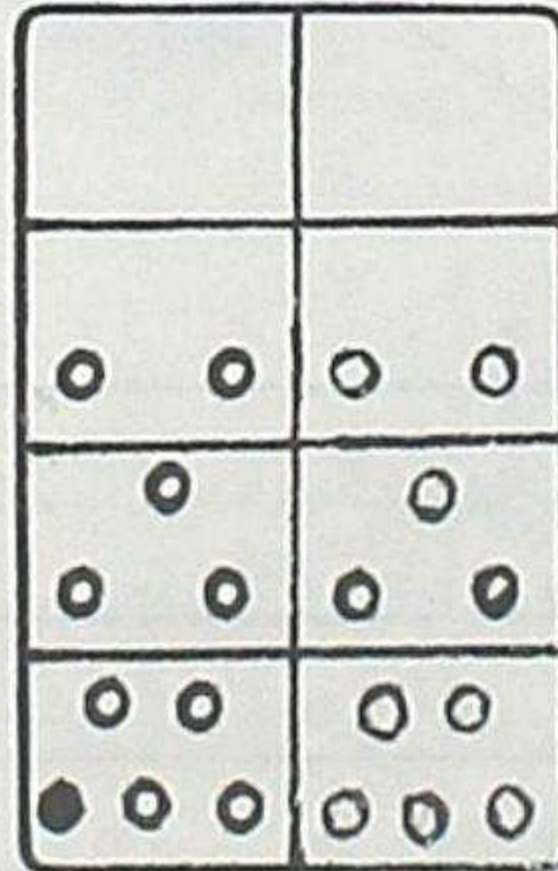
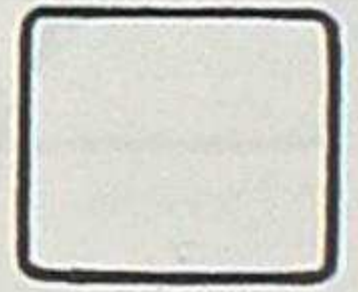
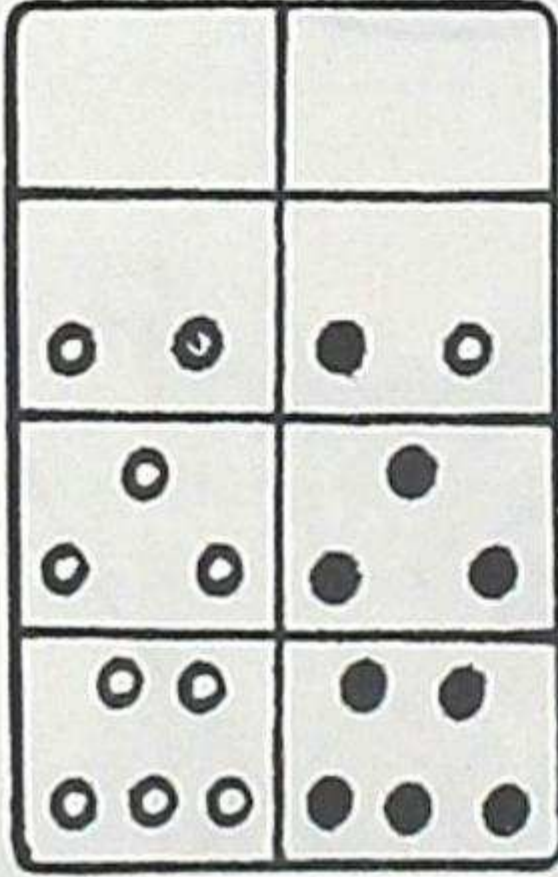
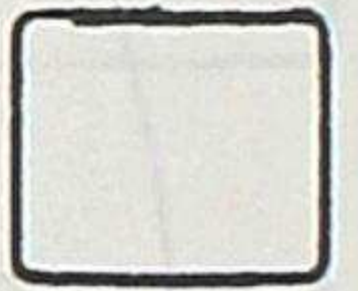
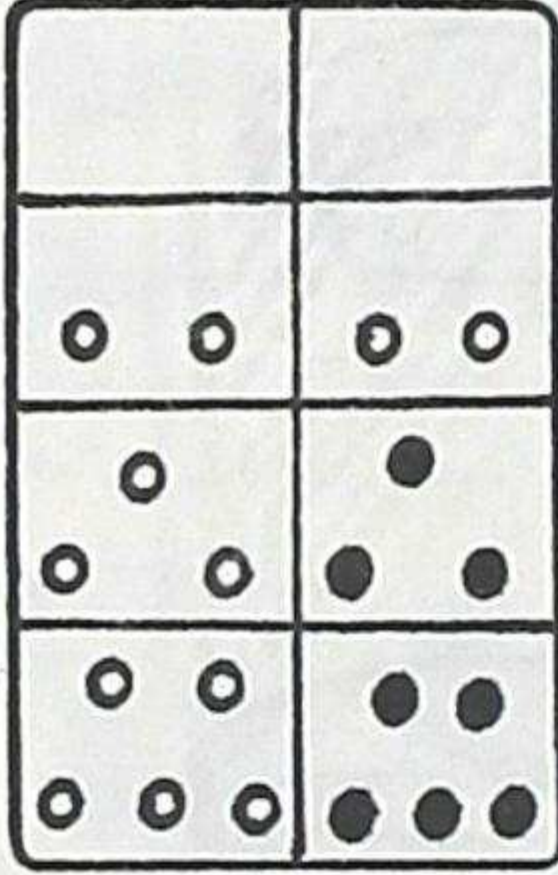
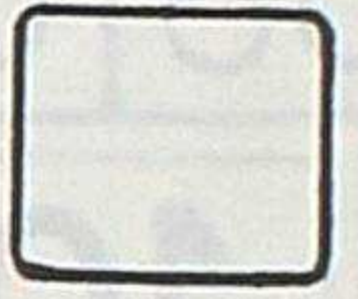
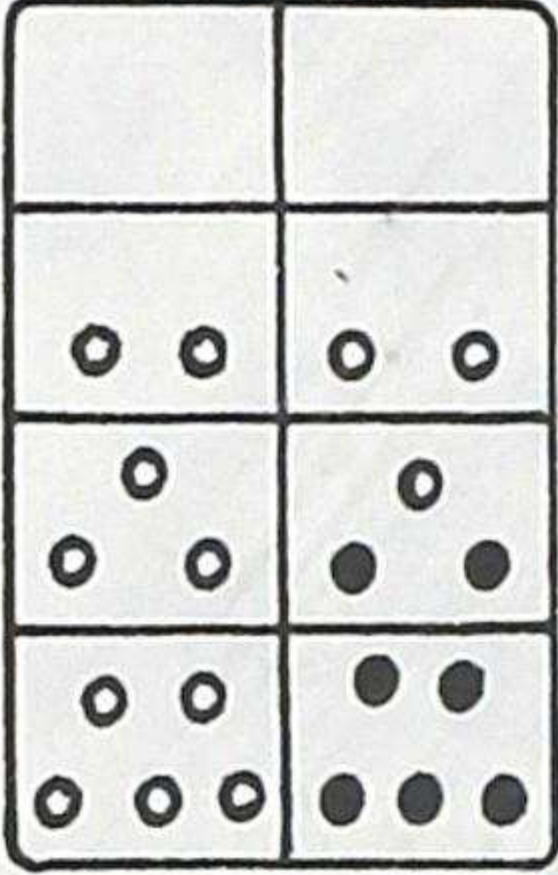
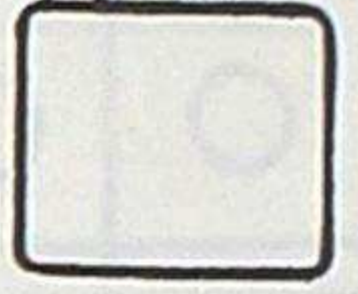
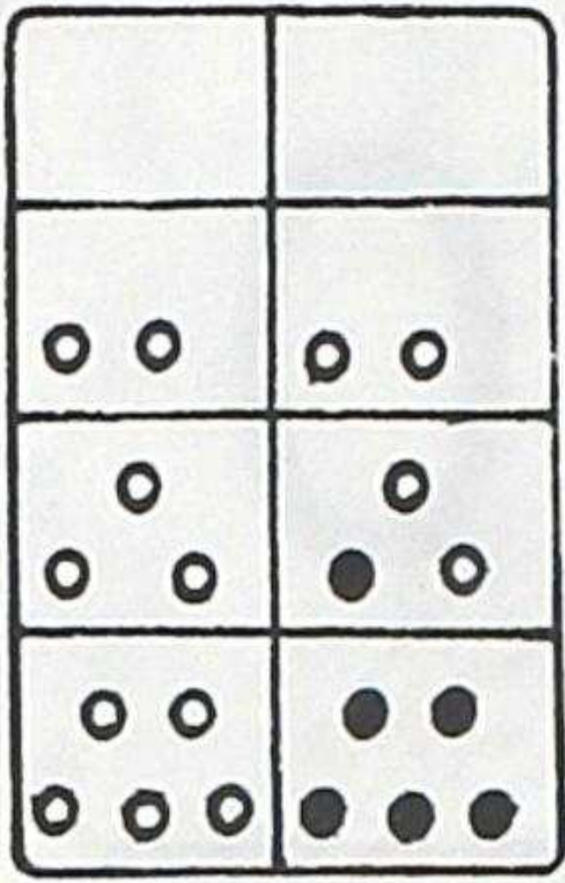
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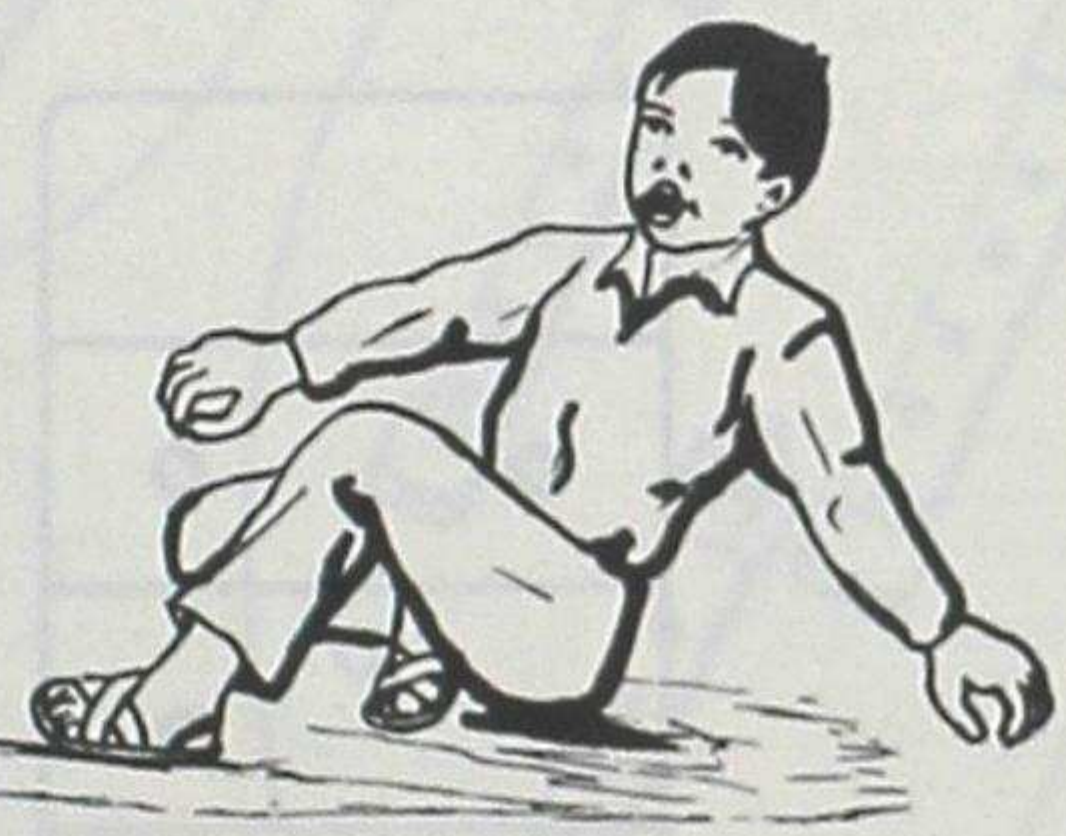
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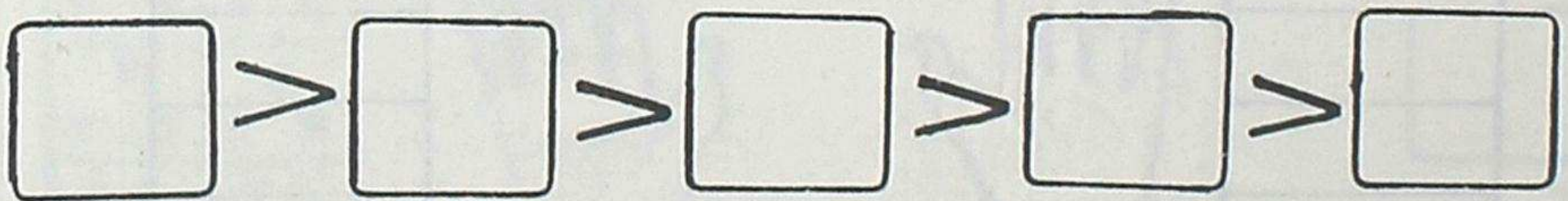
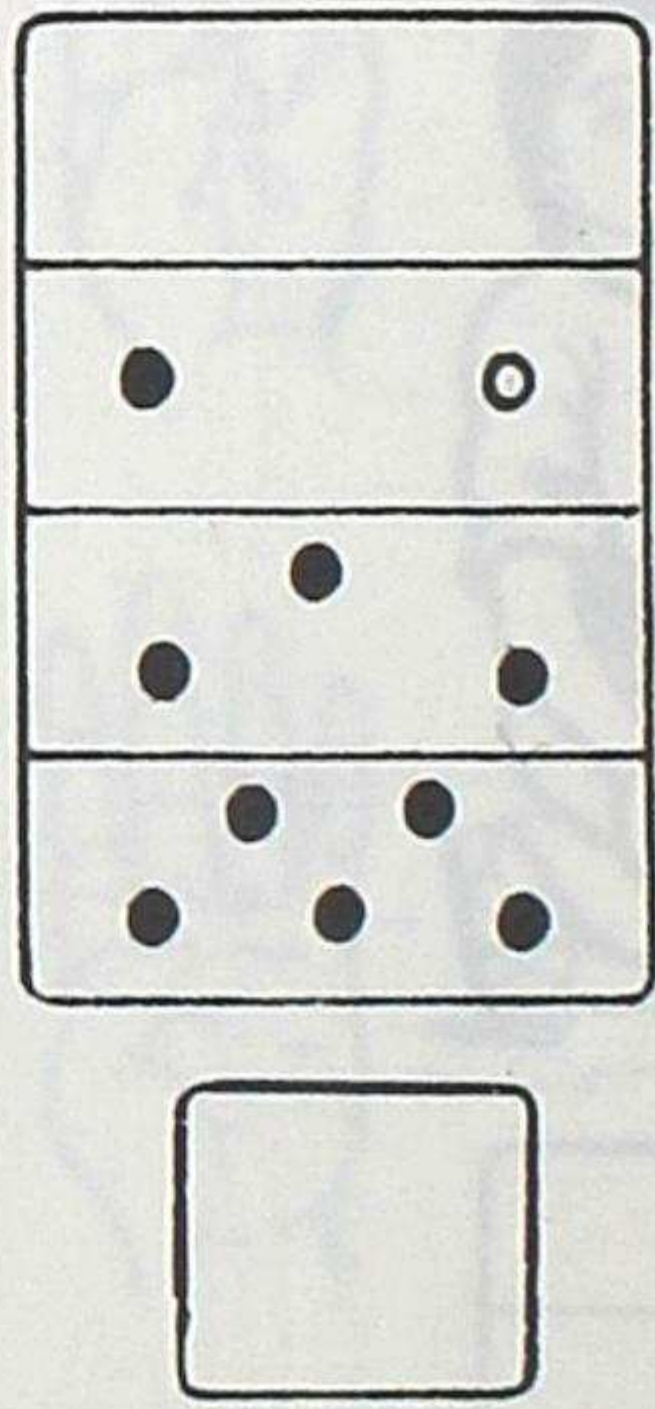
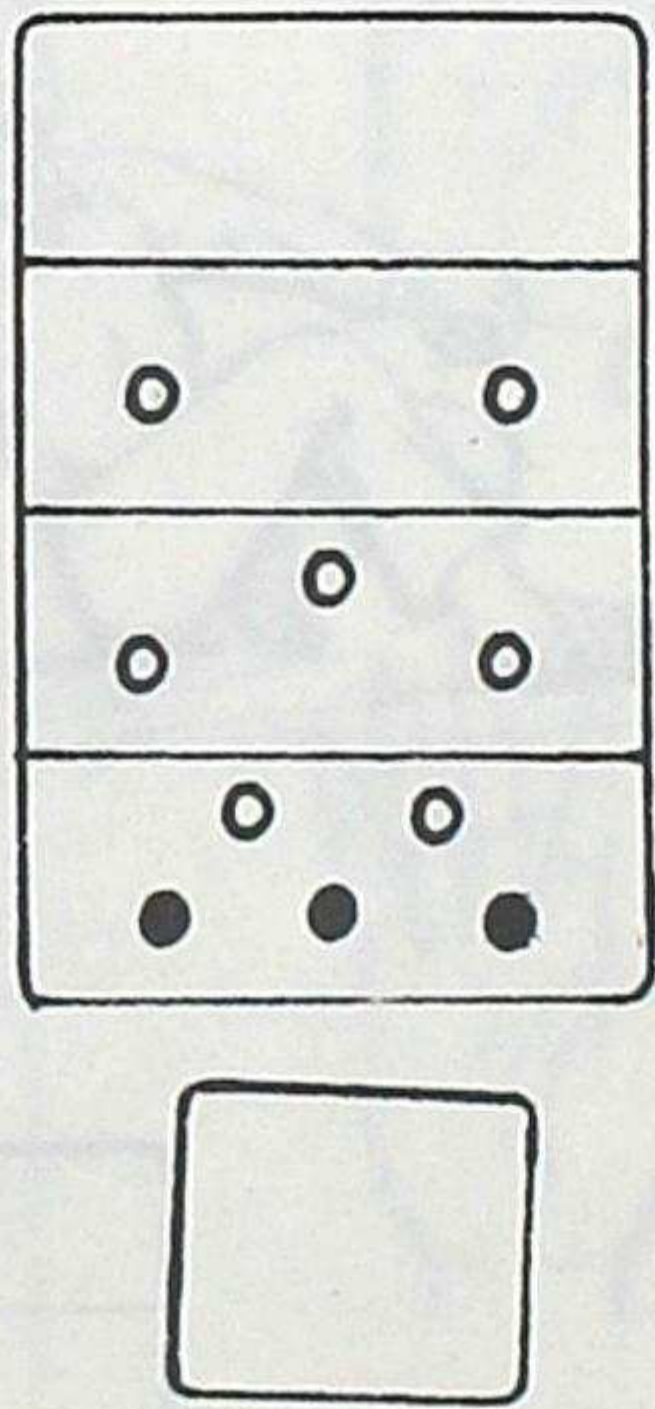
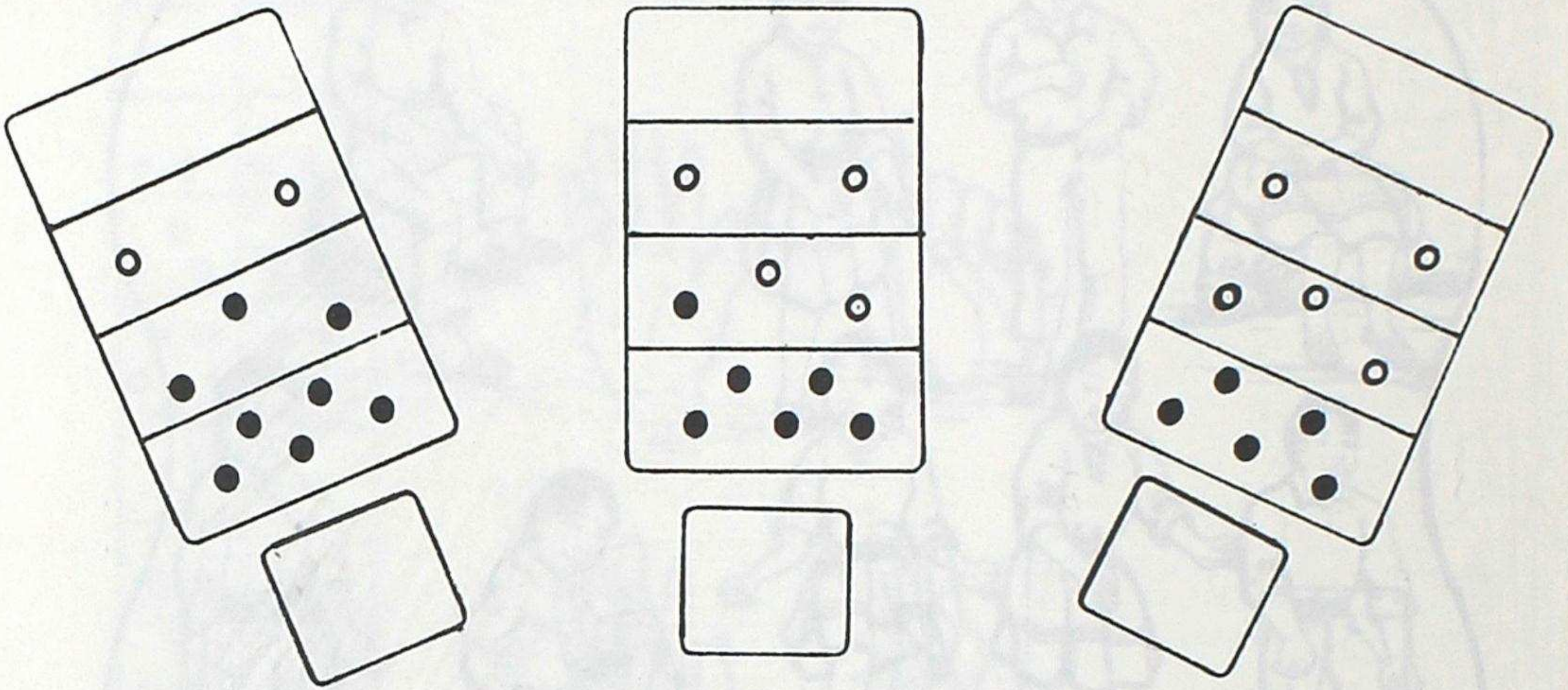


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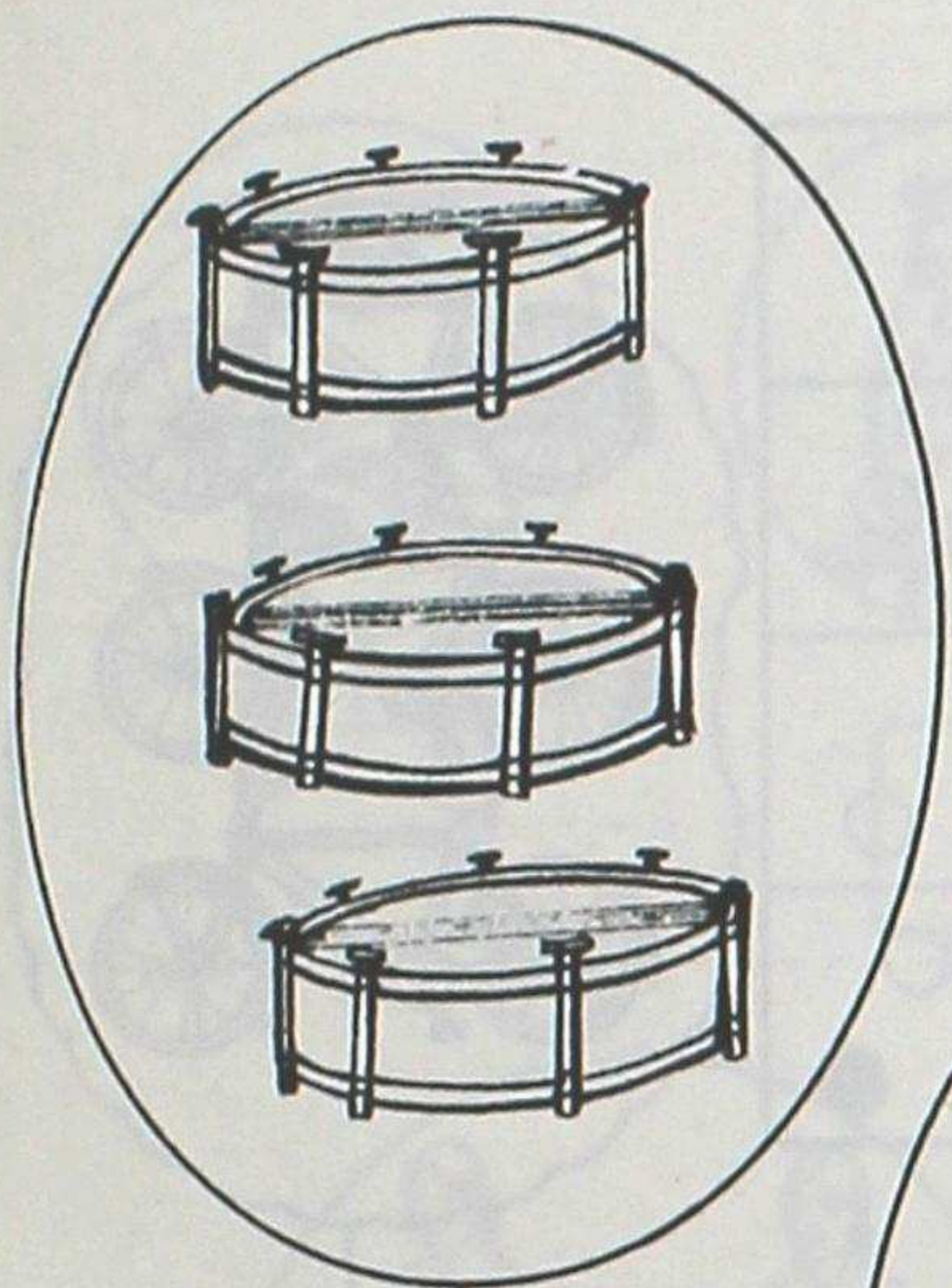
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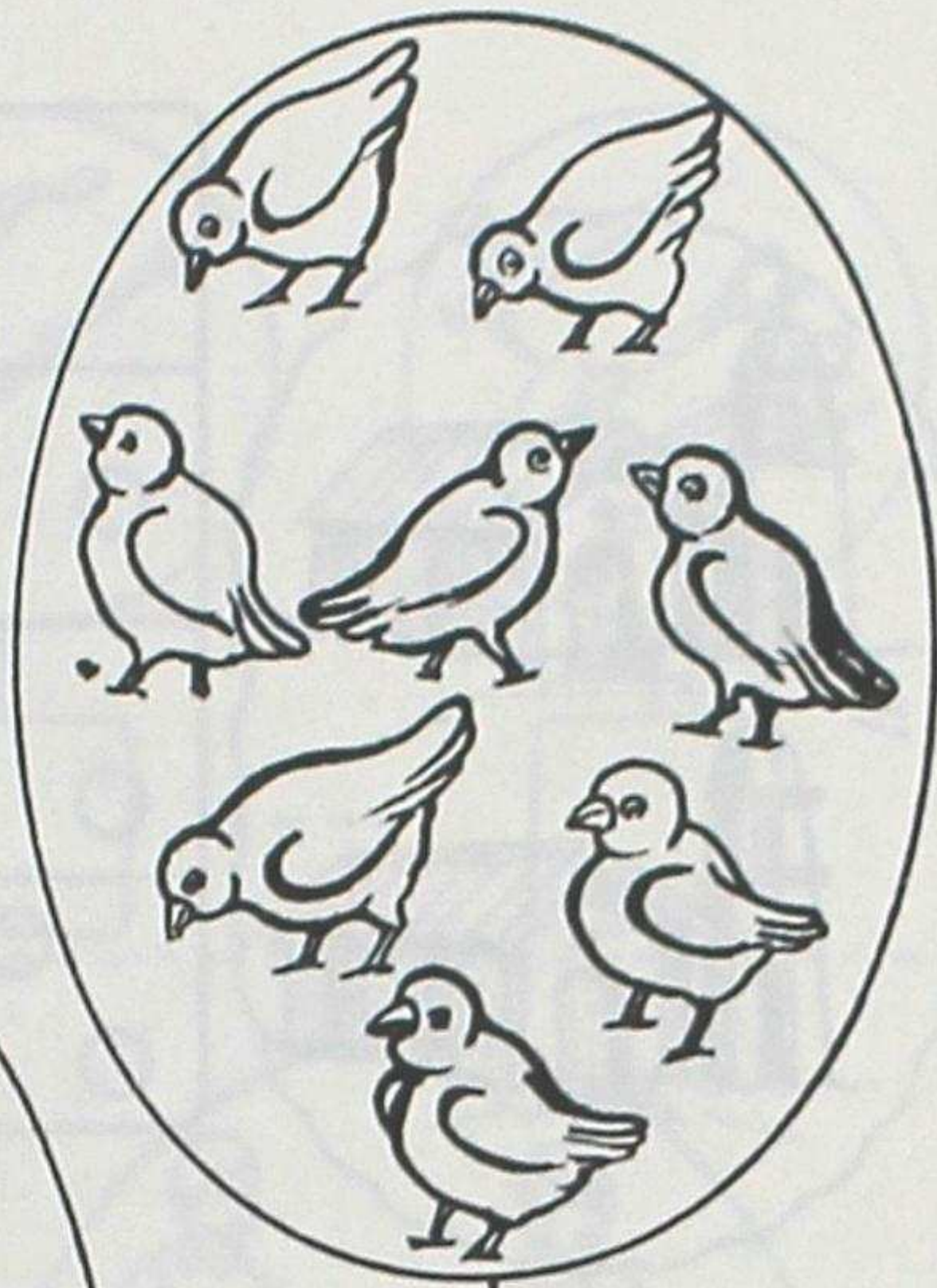




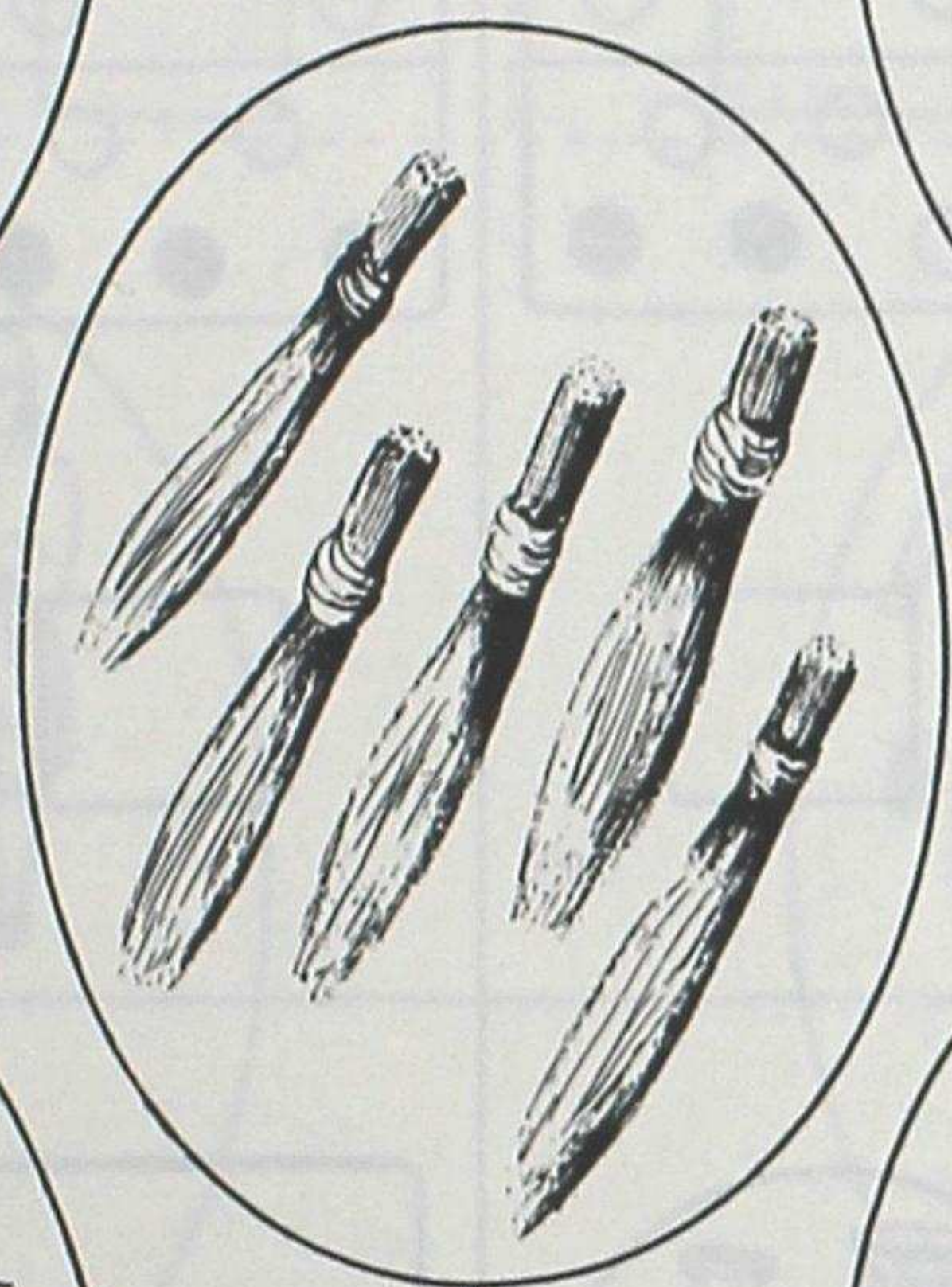




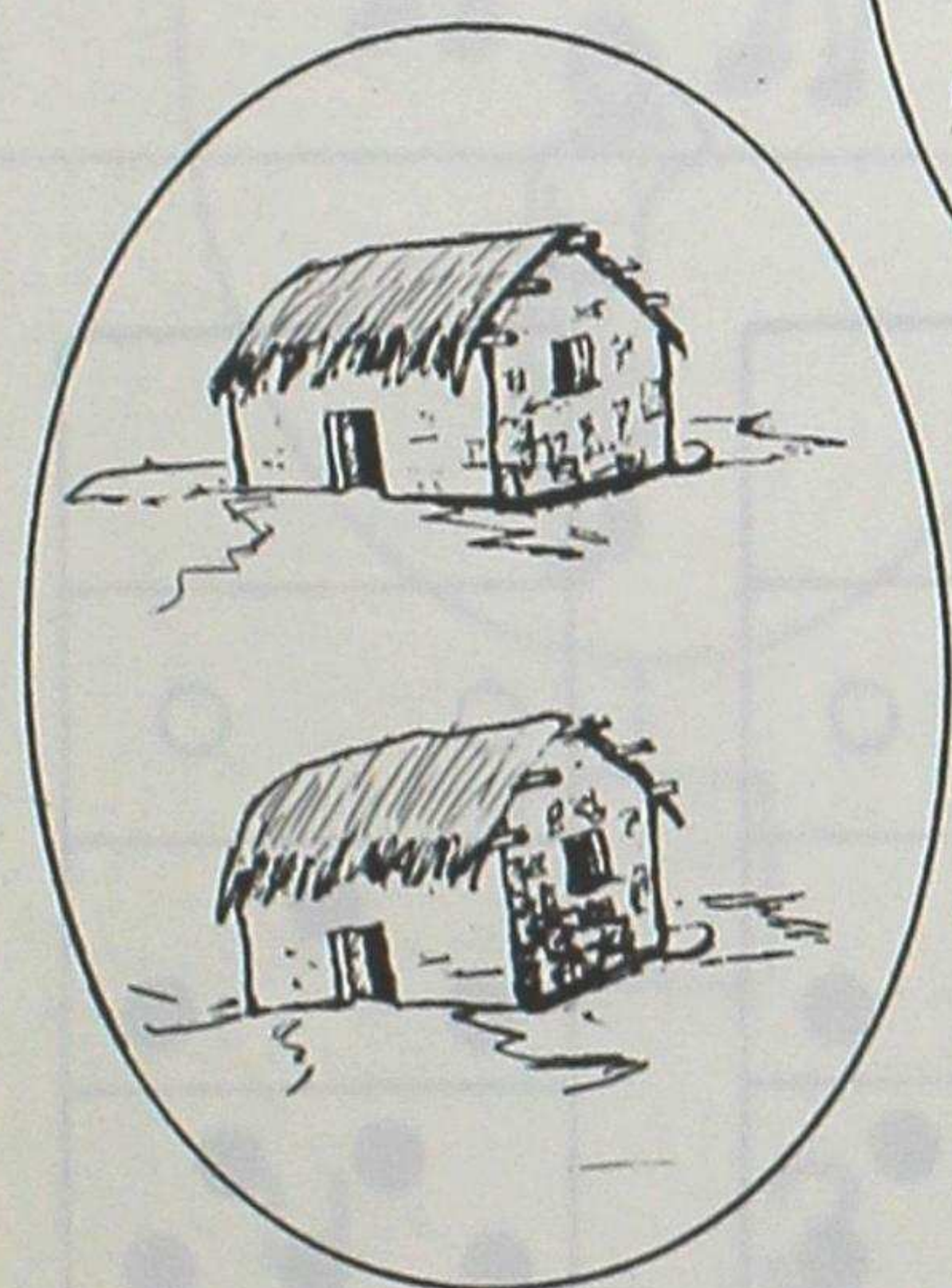
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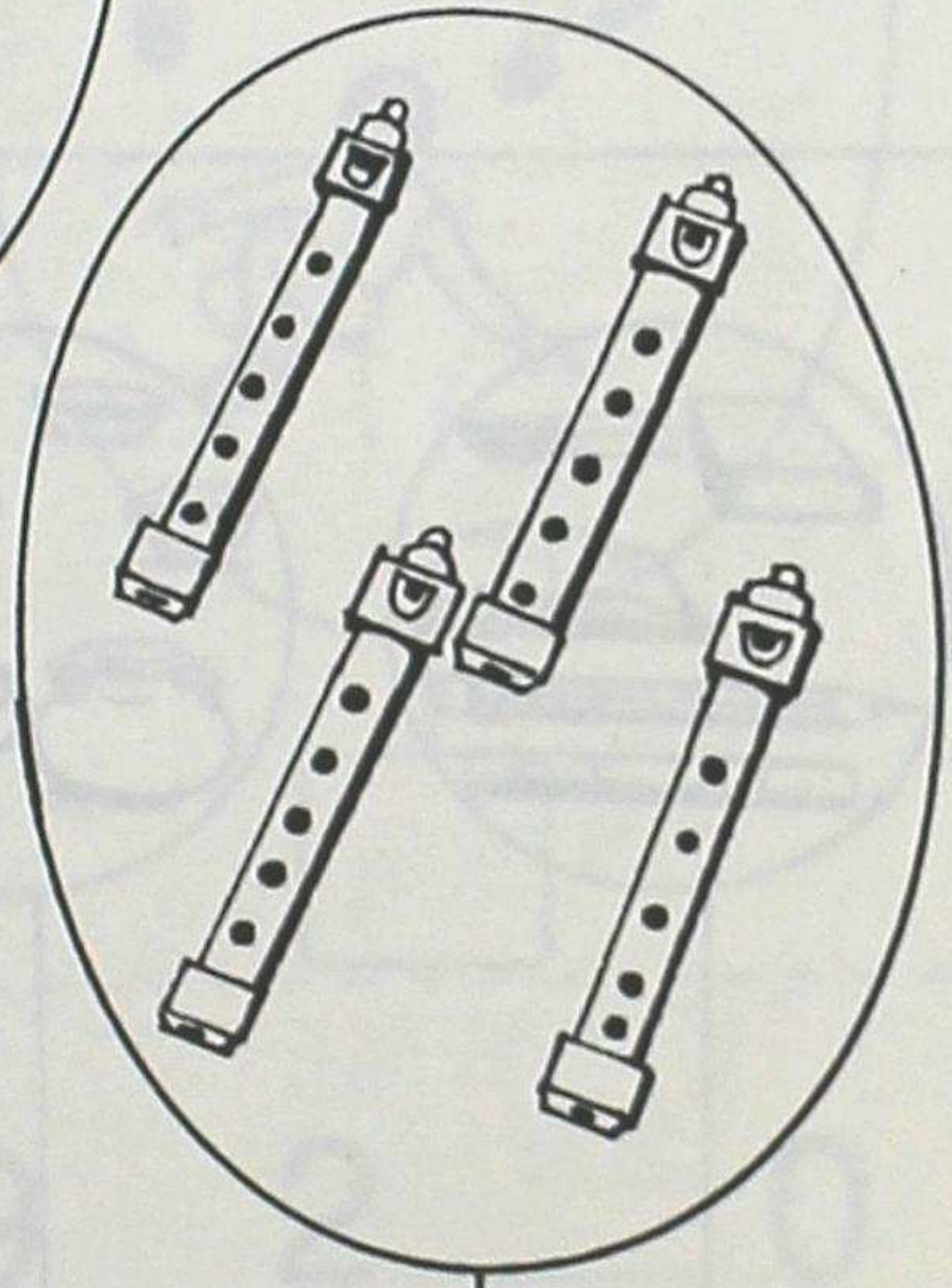
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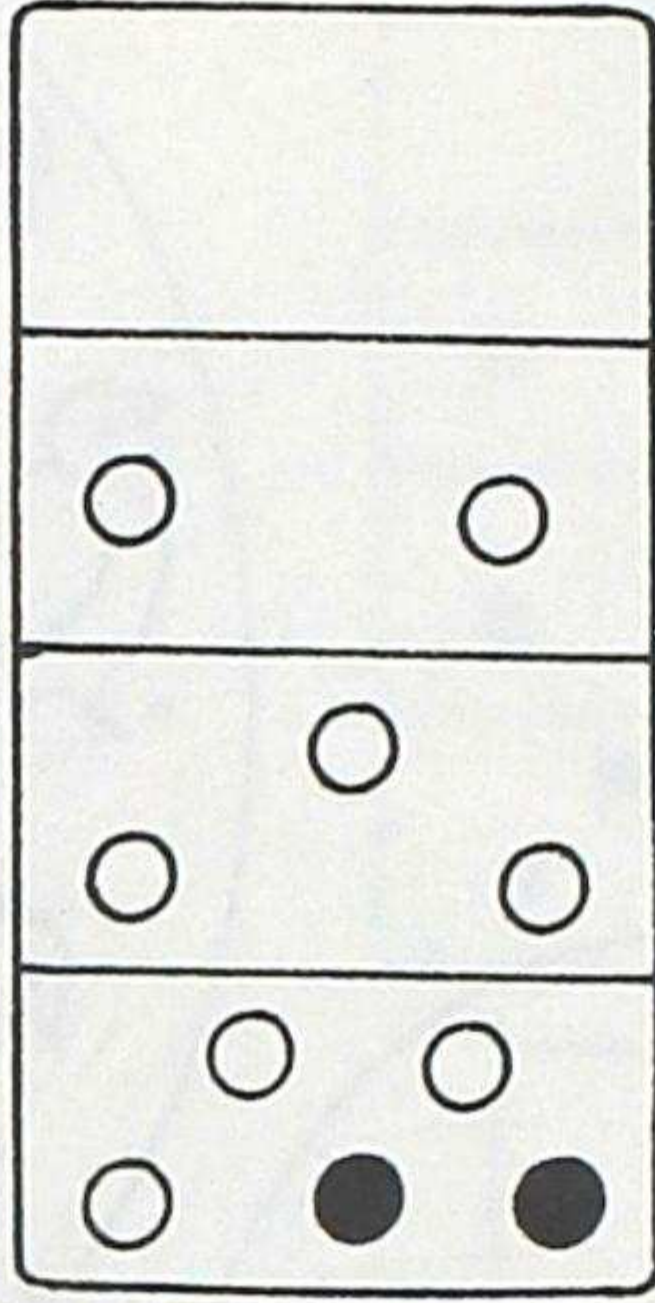
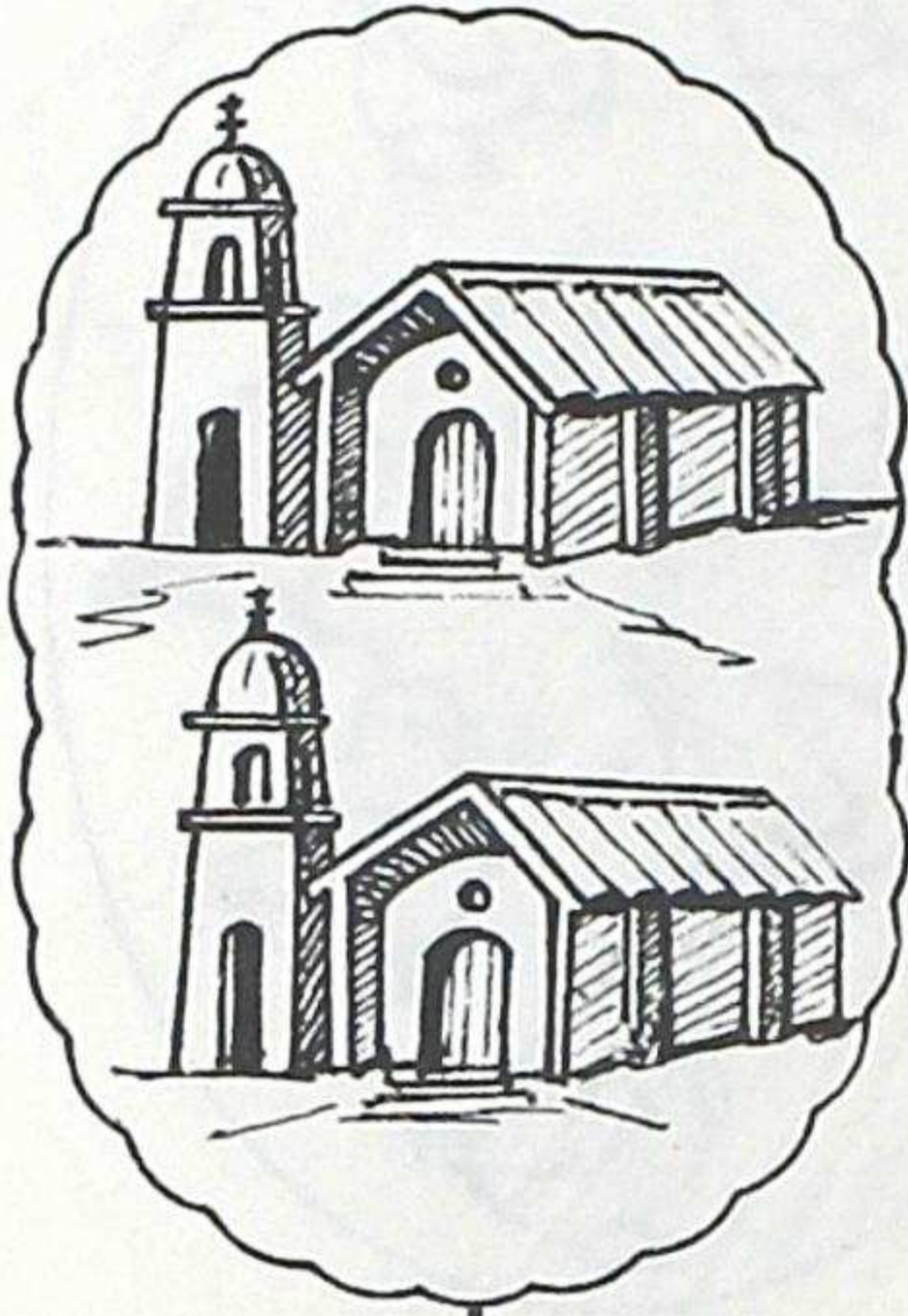
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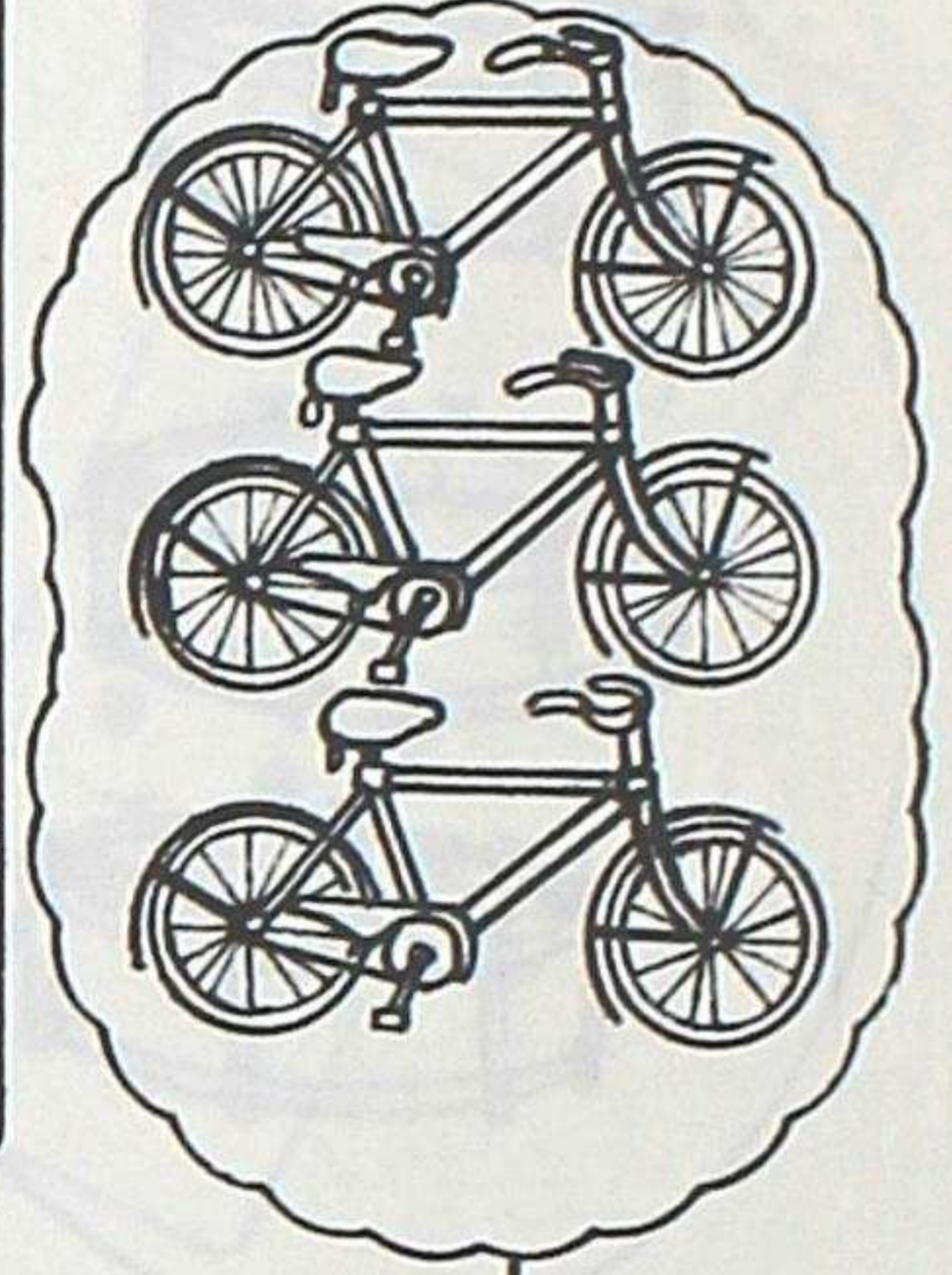
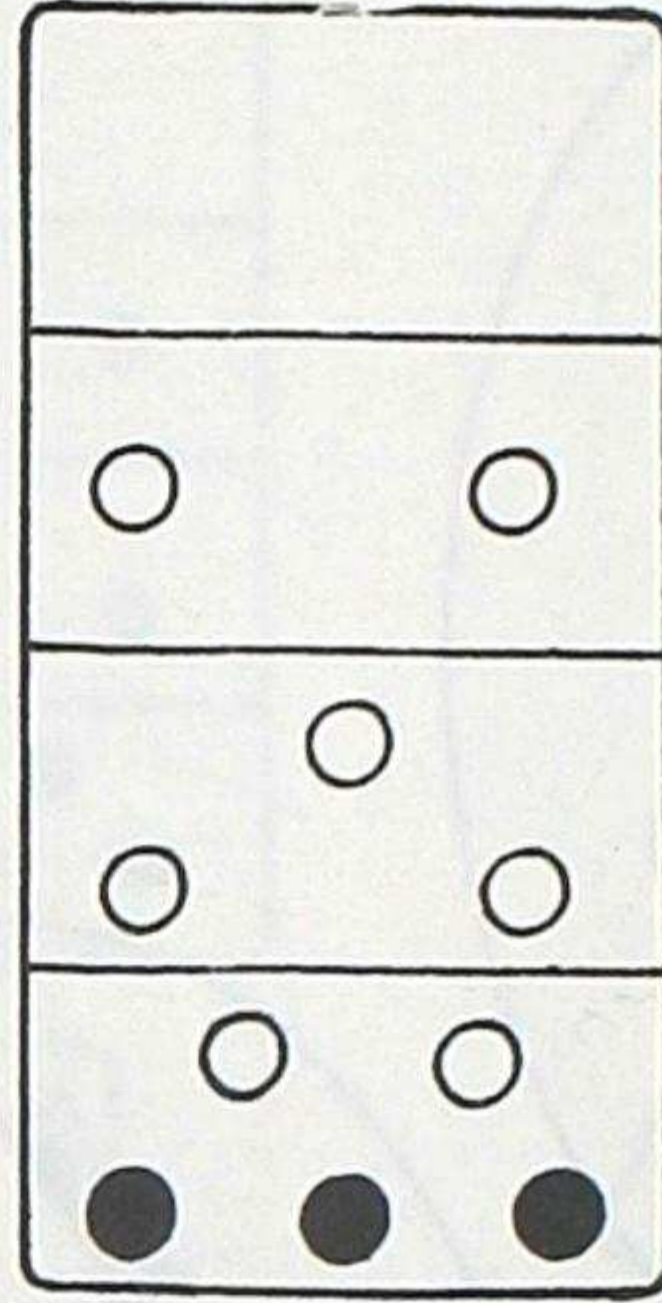
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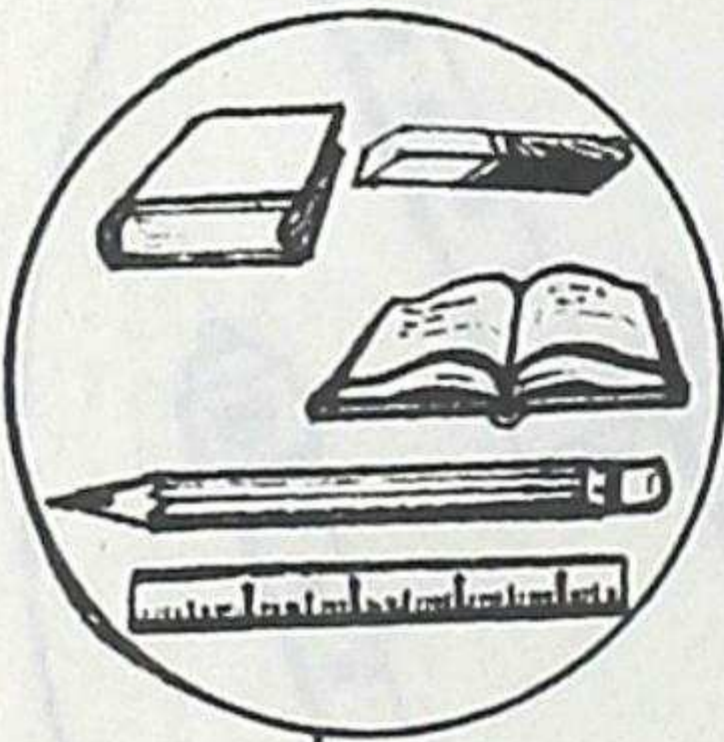




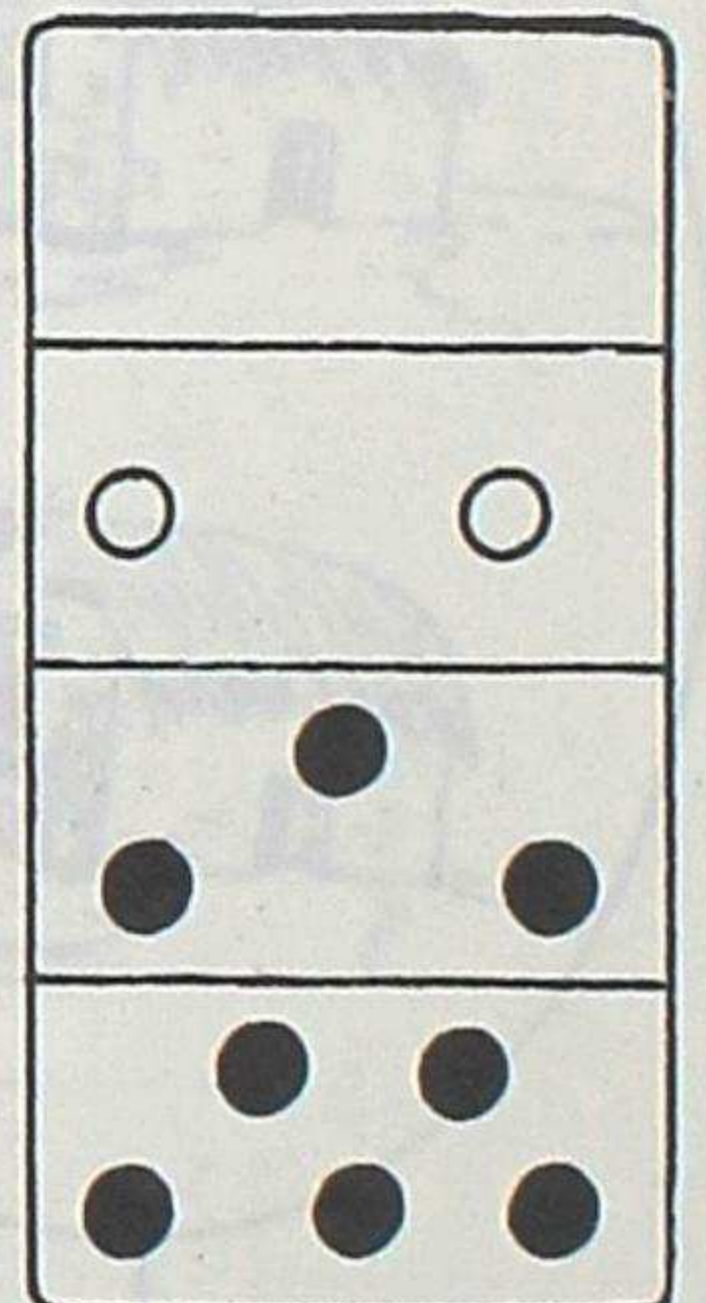
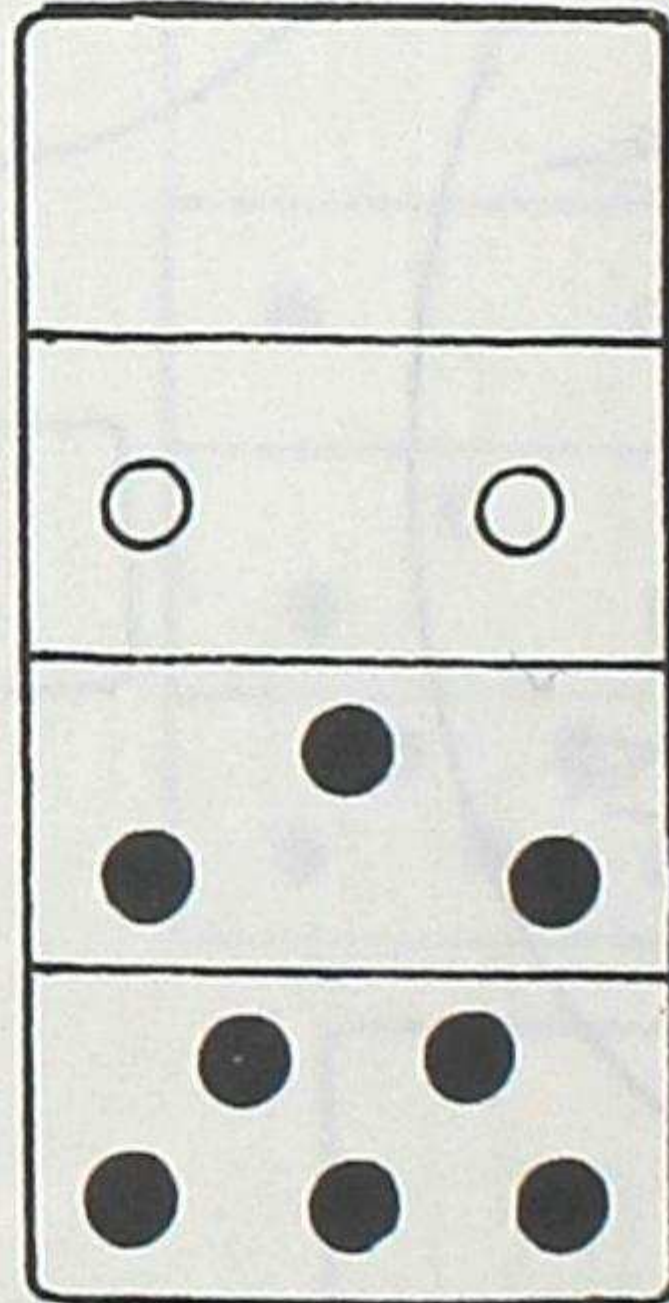
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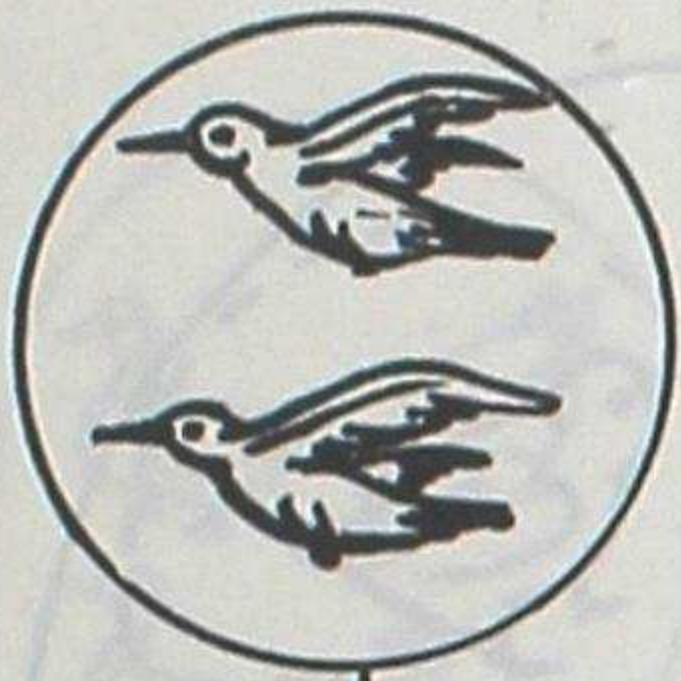


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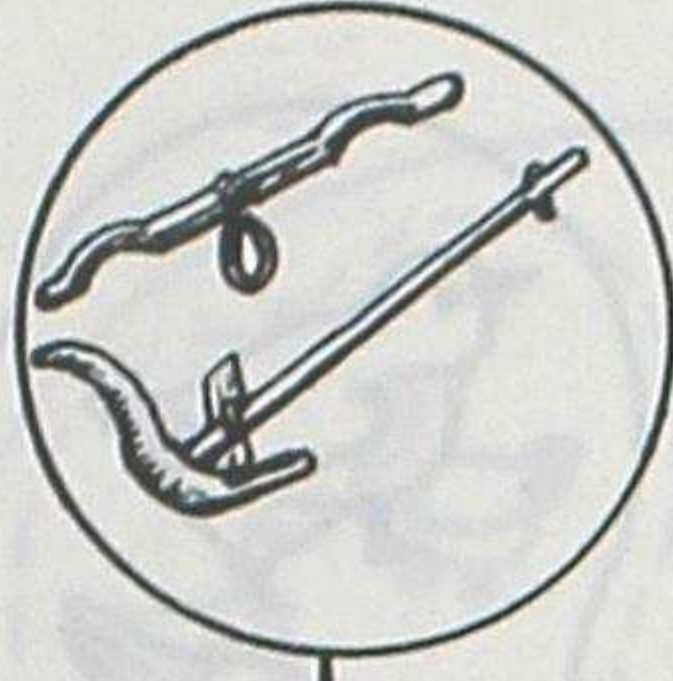


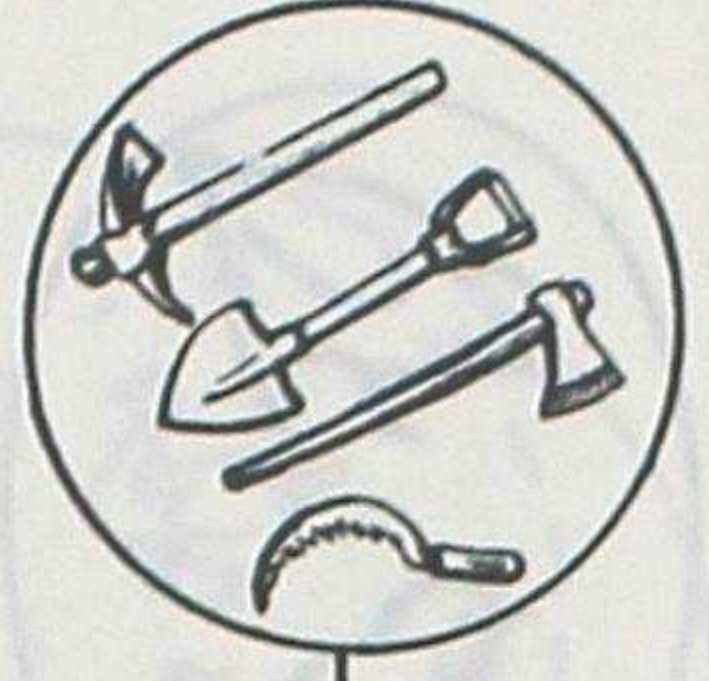
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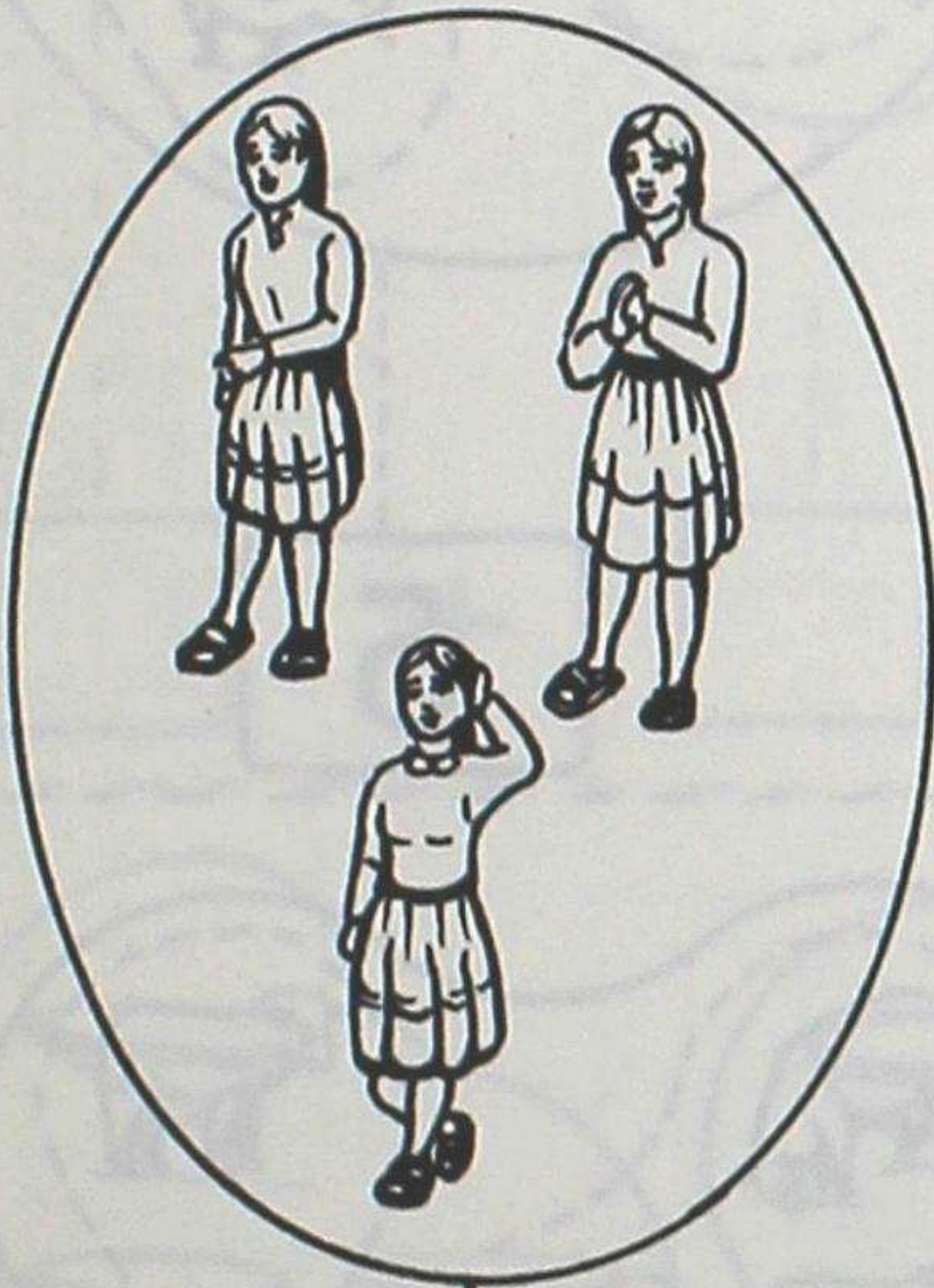


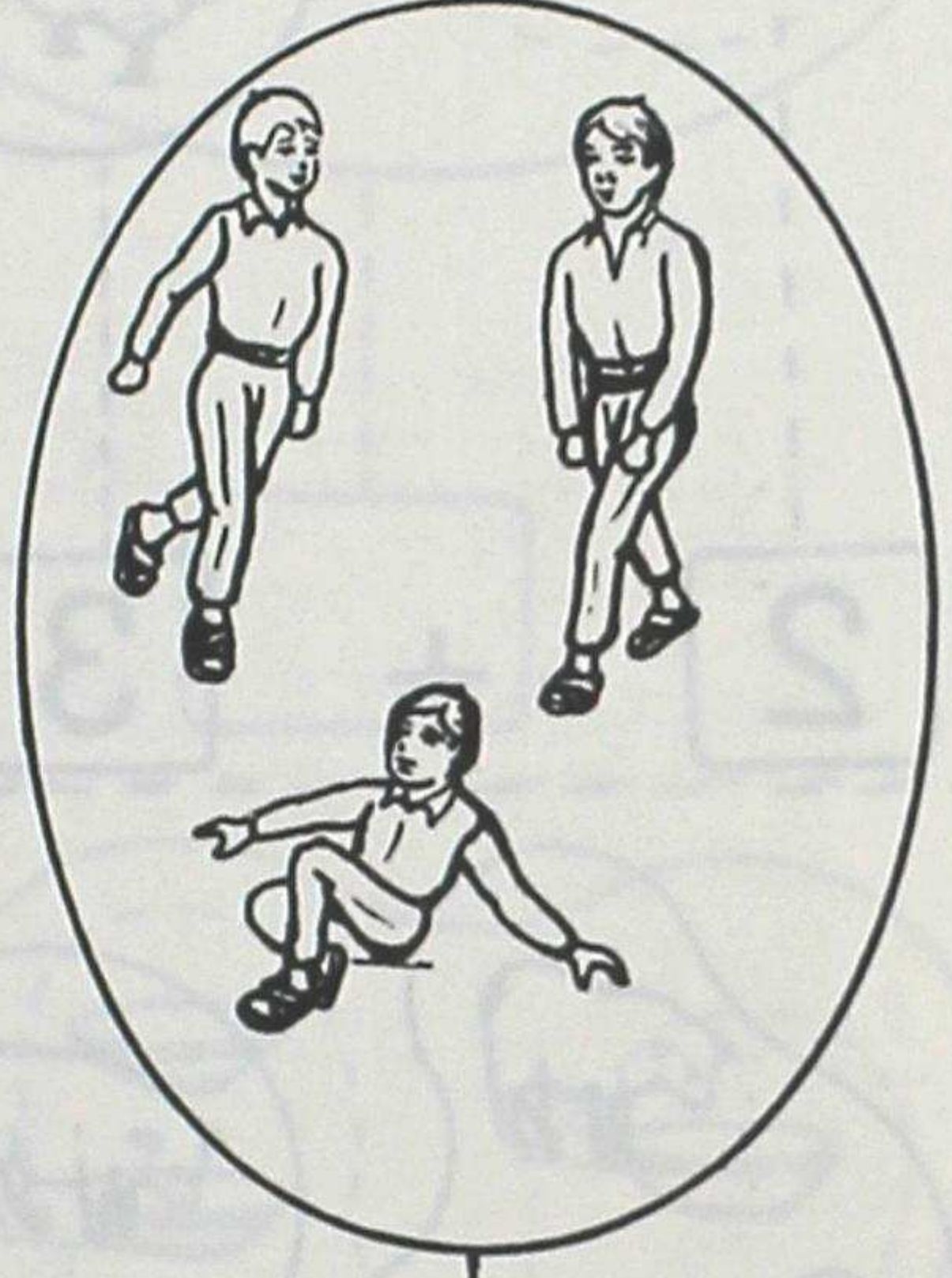













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9 ..... 9

2 ..... 0

2 ..... 5

7 ..... 5

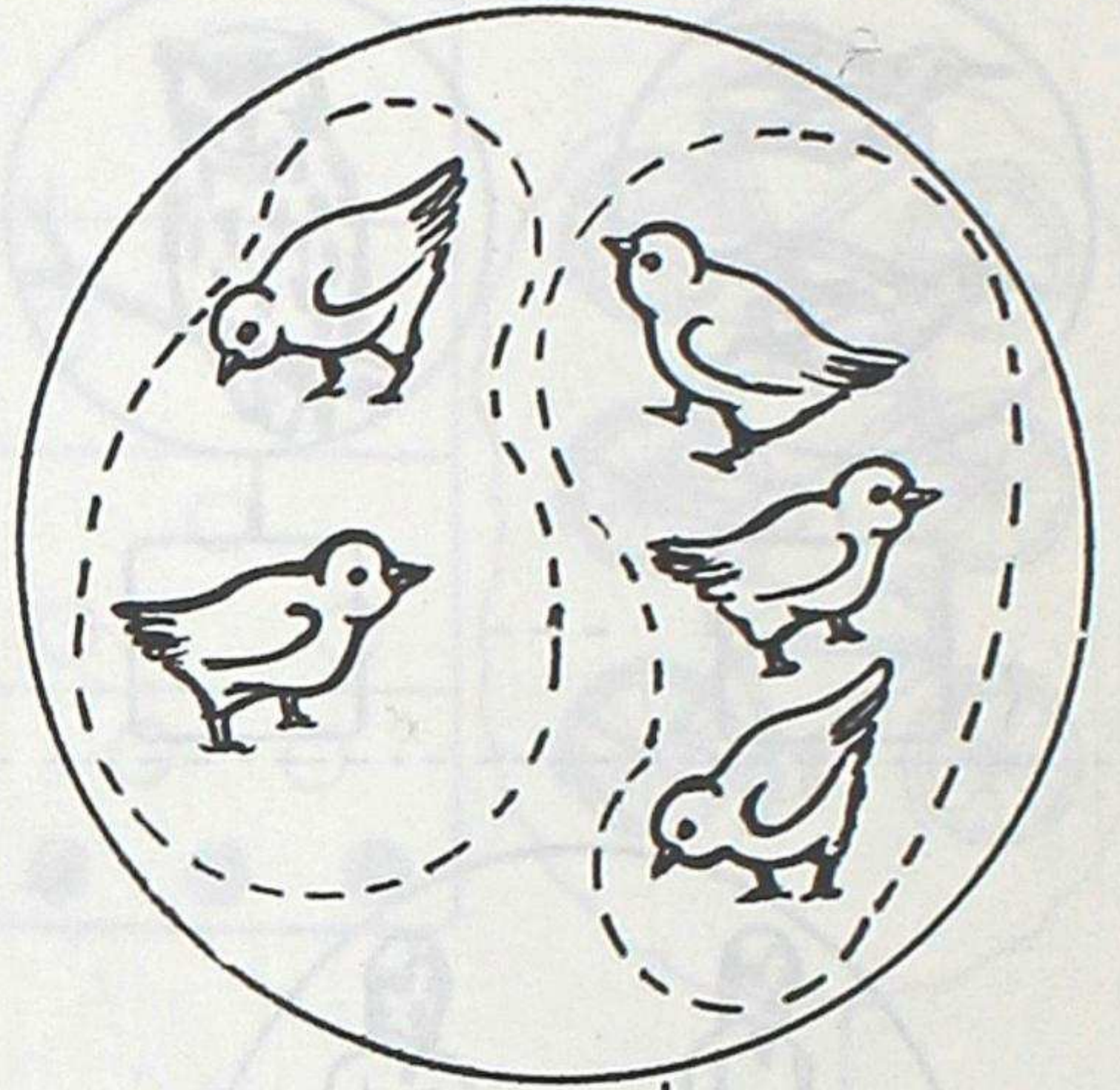
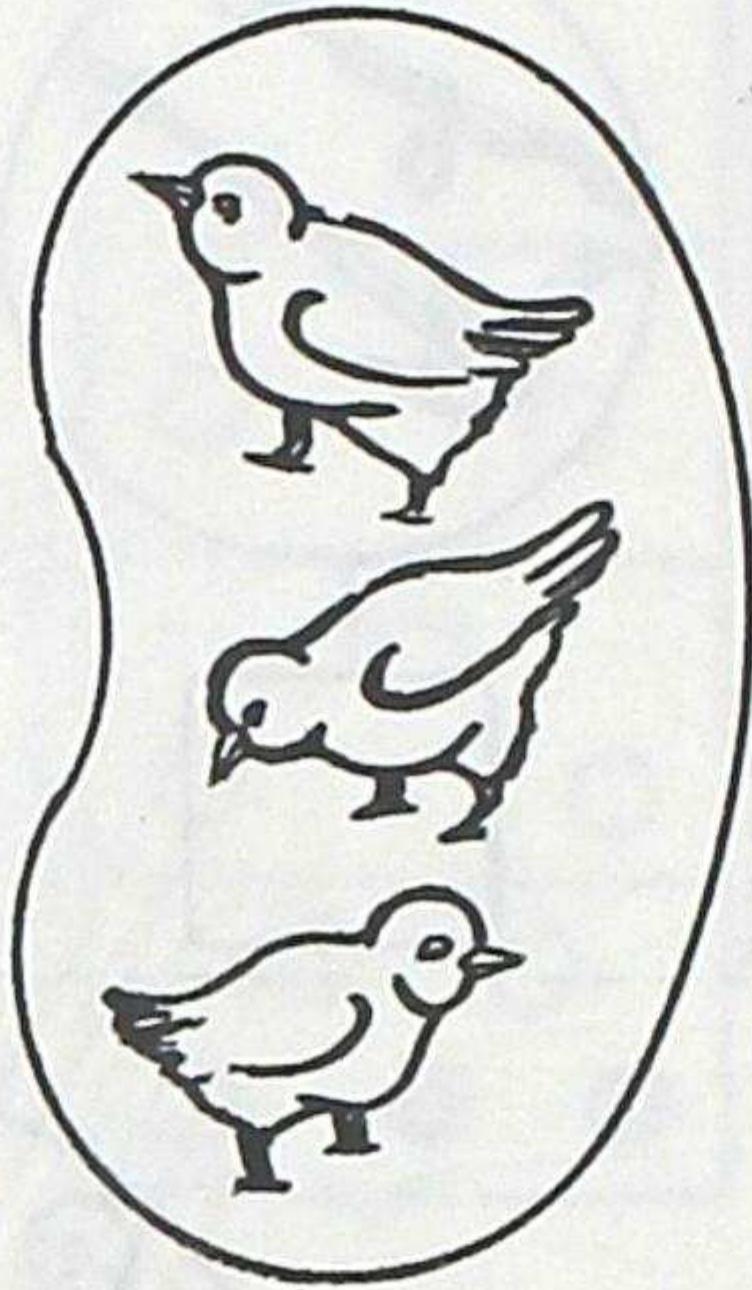
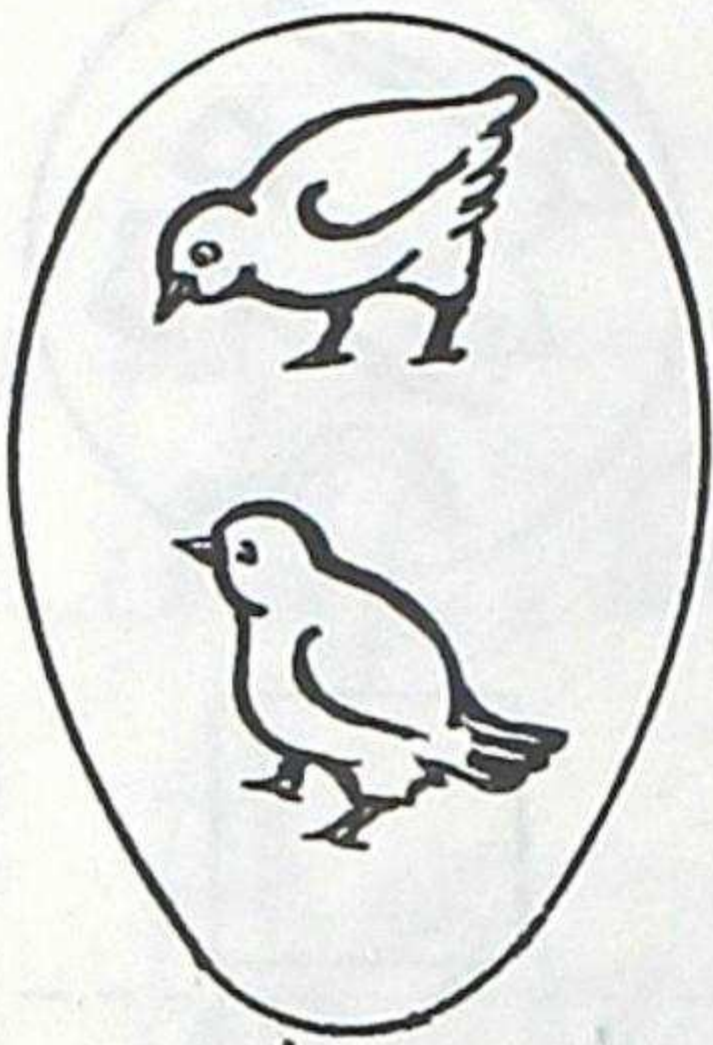
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8 ..... 8

3 ..... 6

5 ..... 8





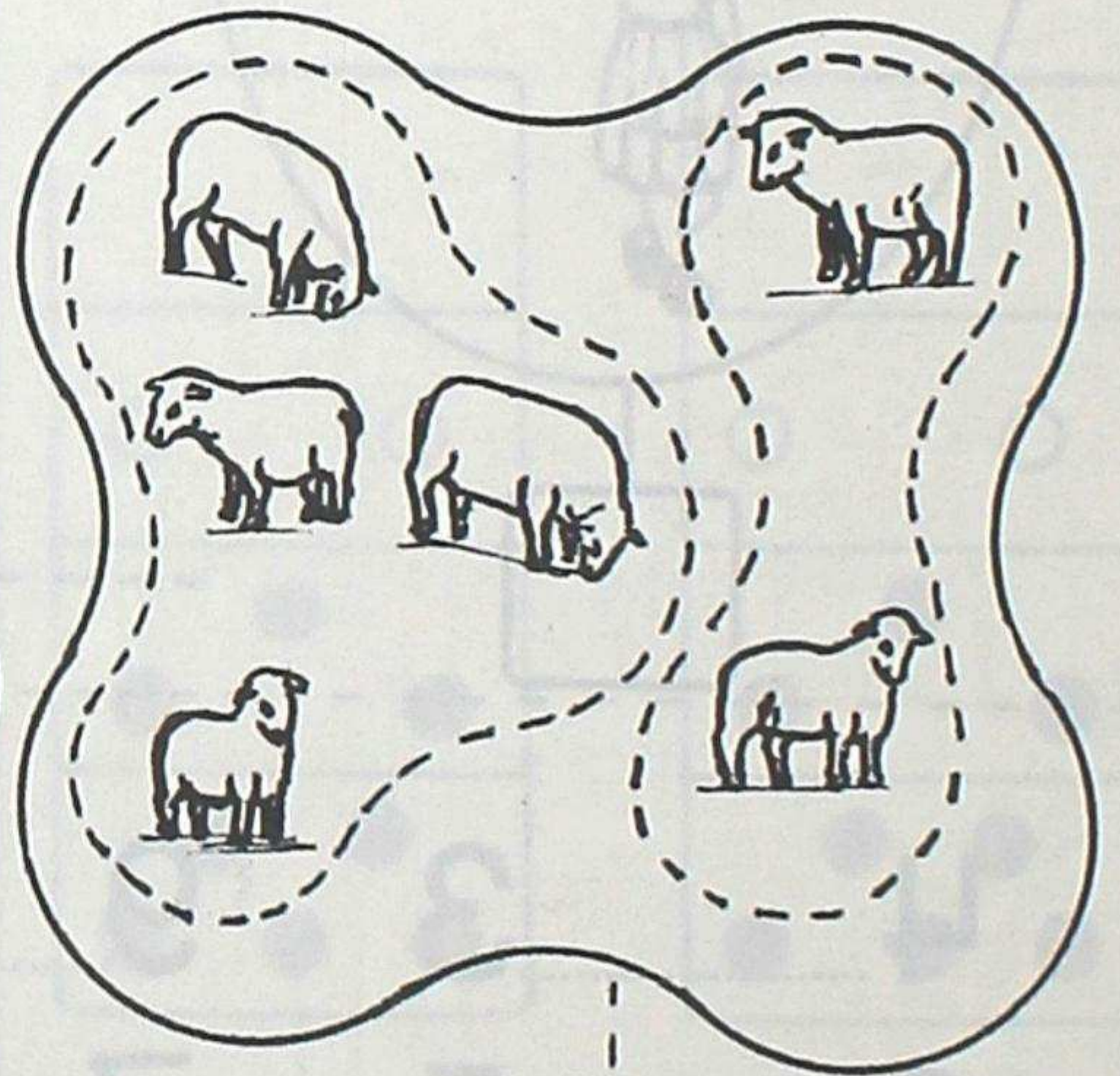
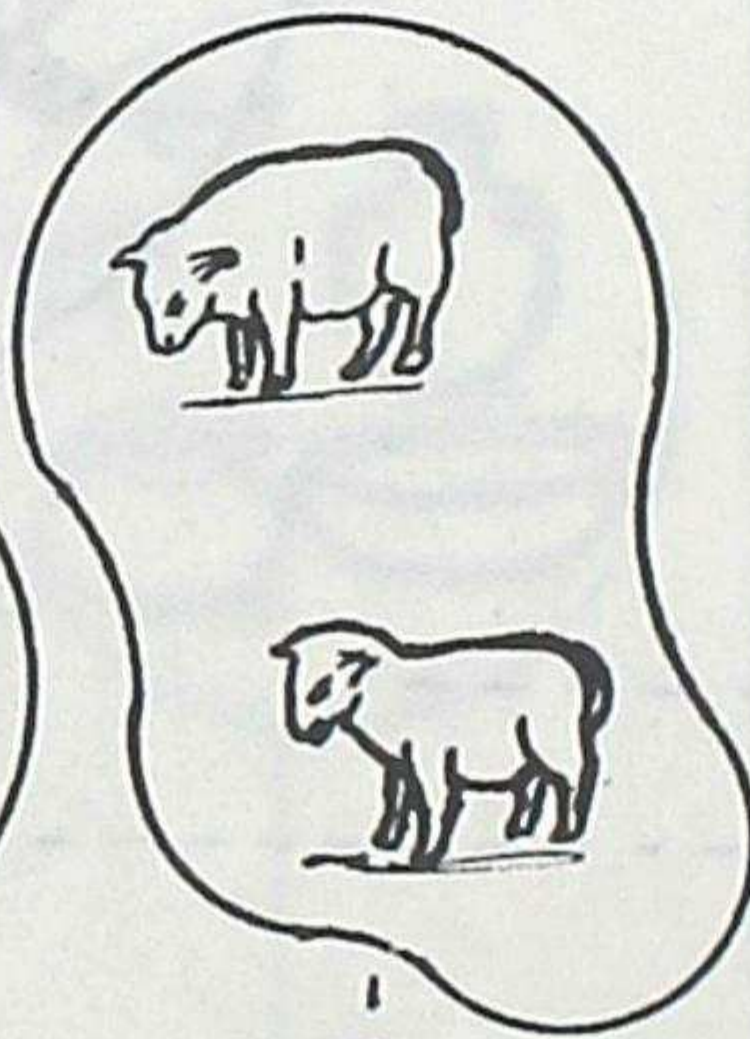
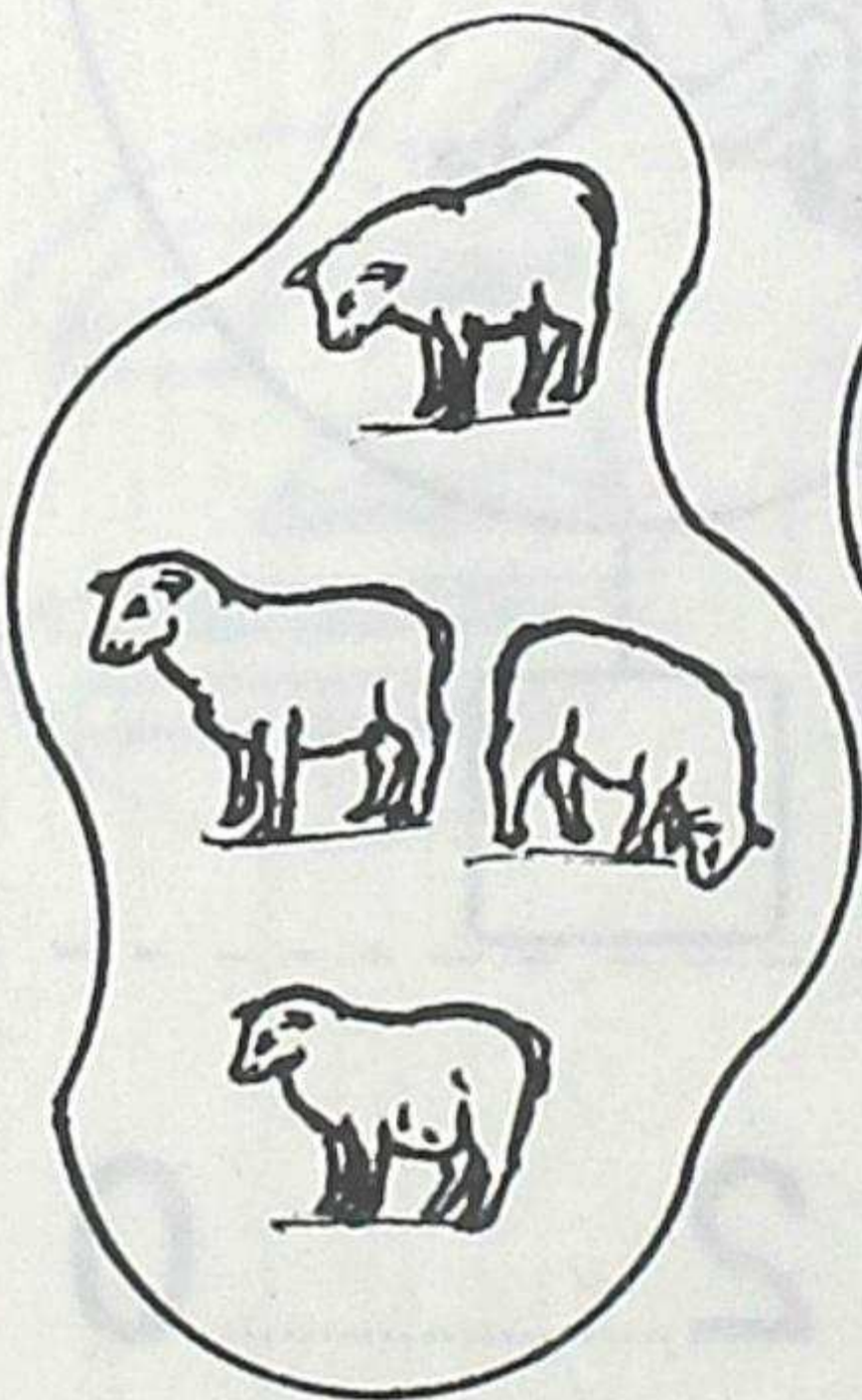
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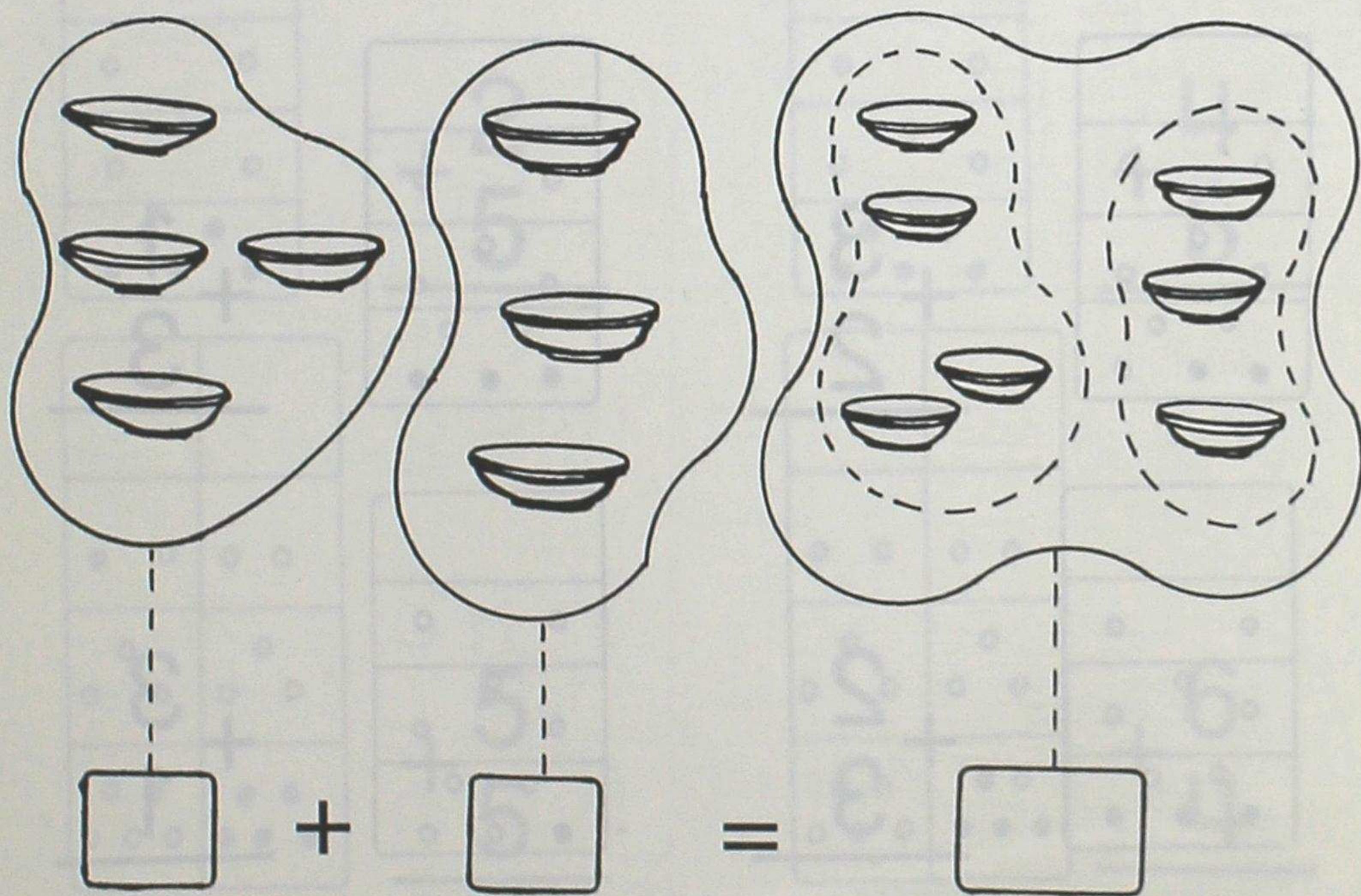
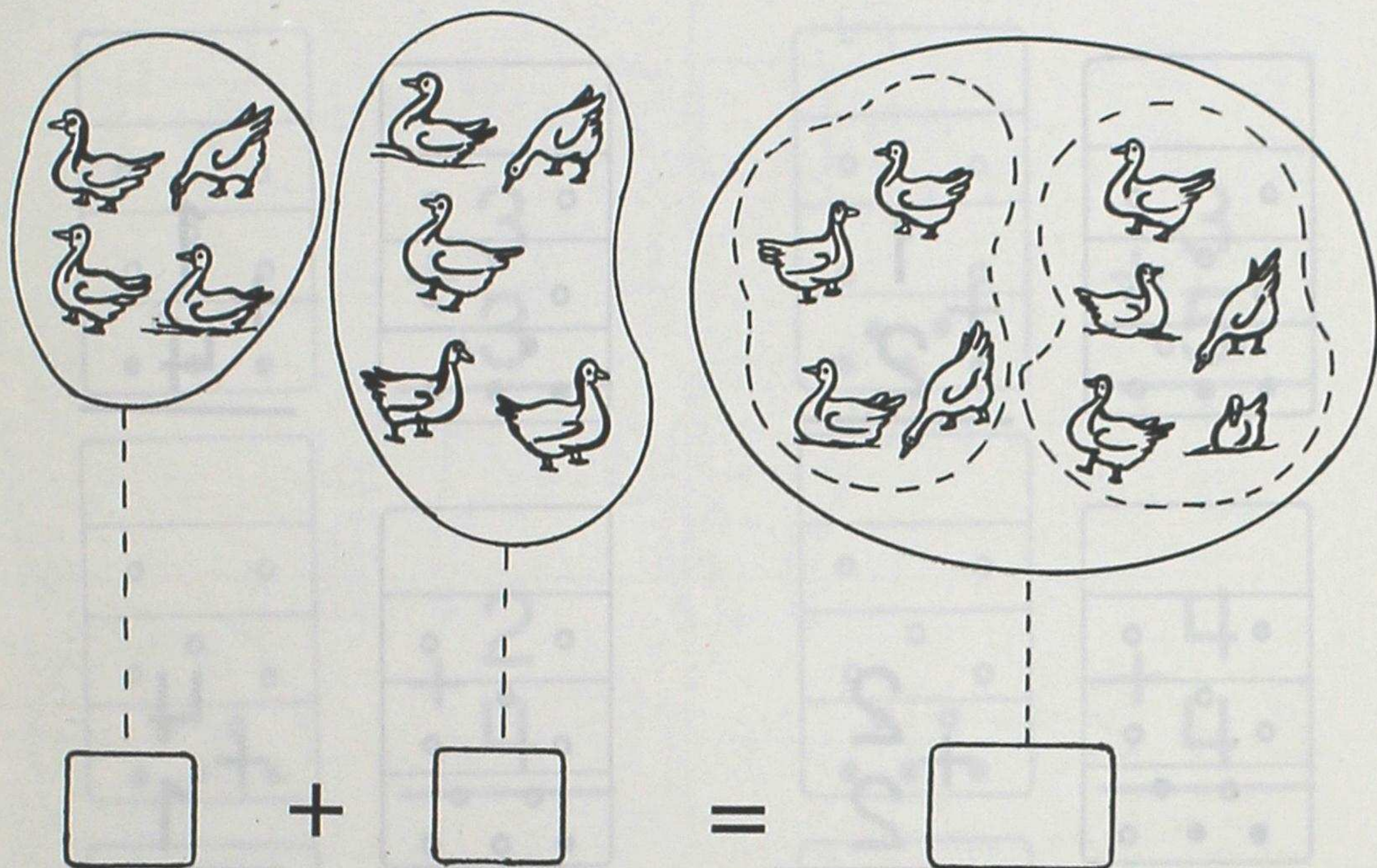
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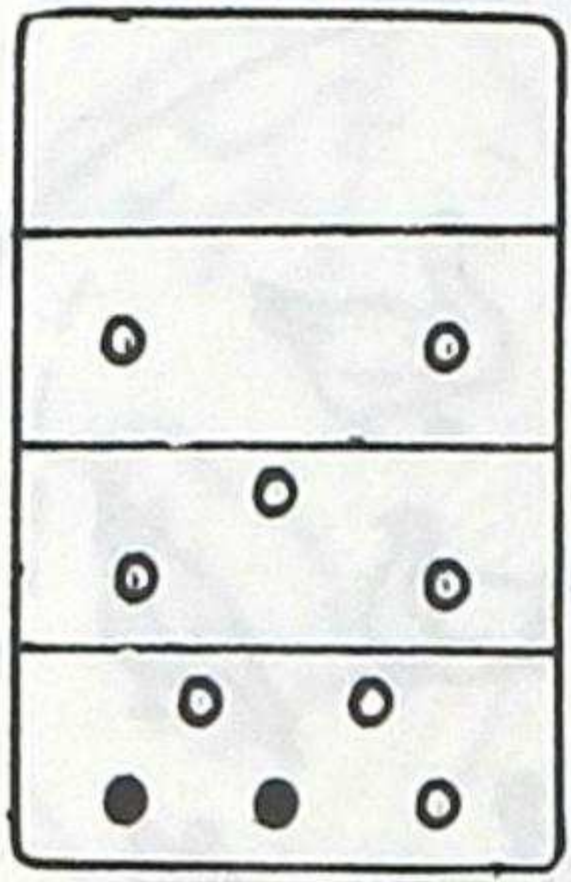
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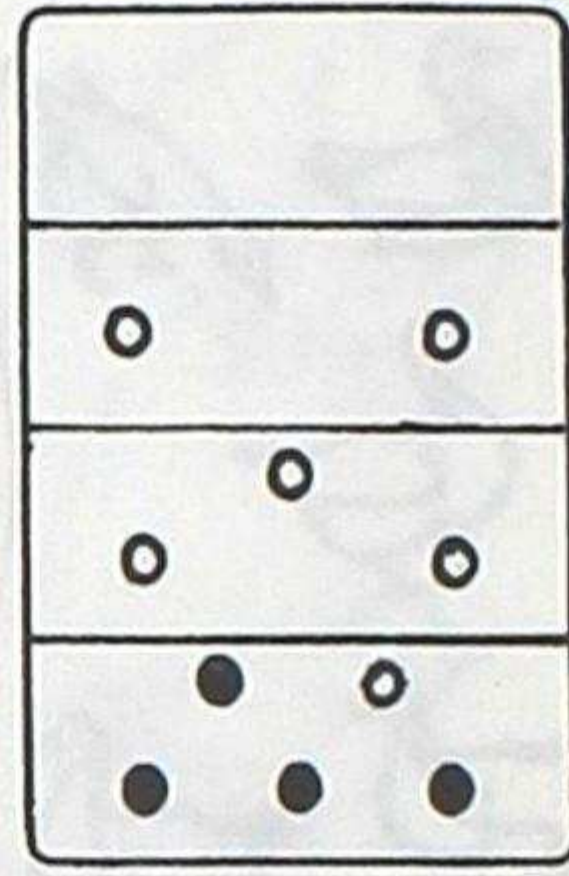




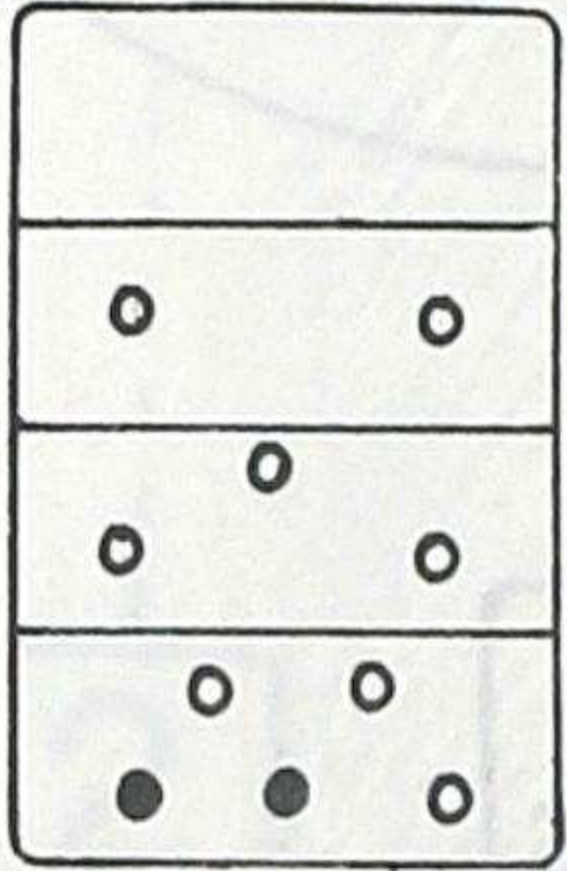




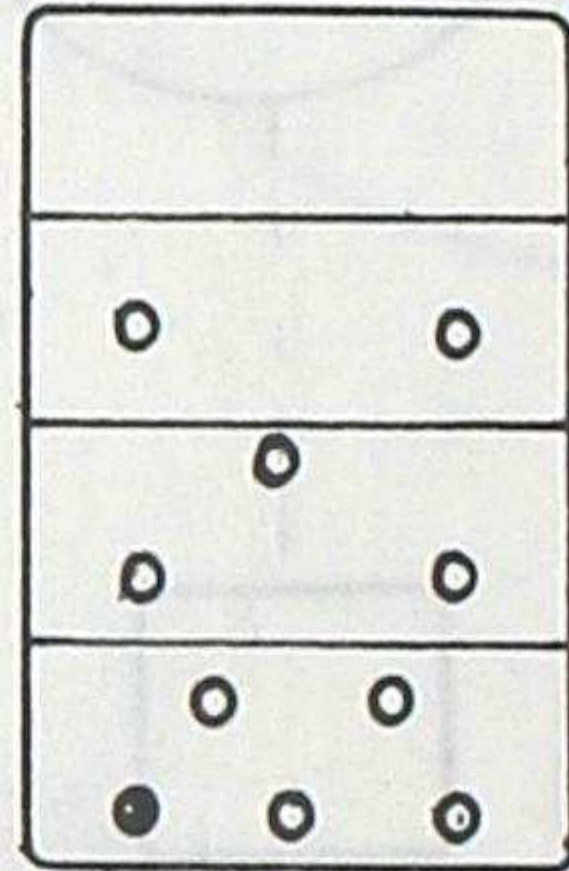
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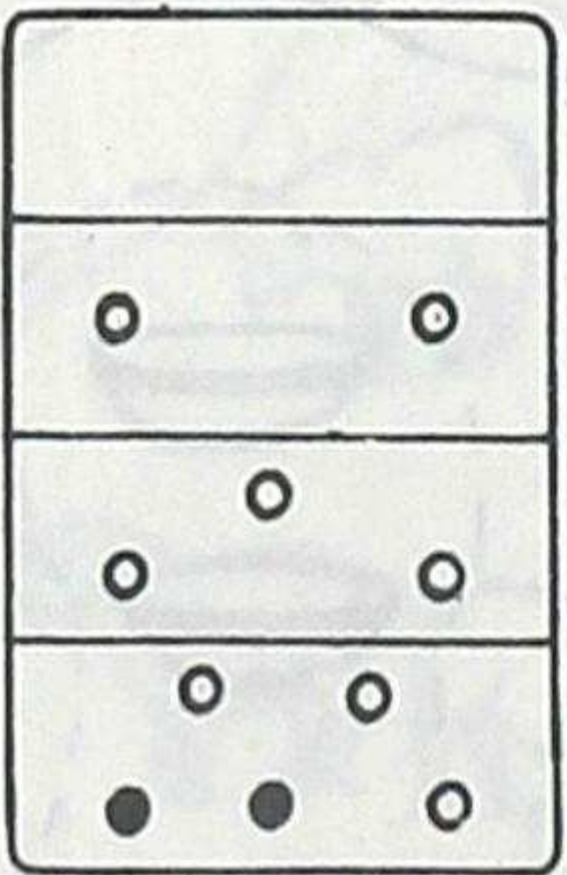
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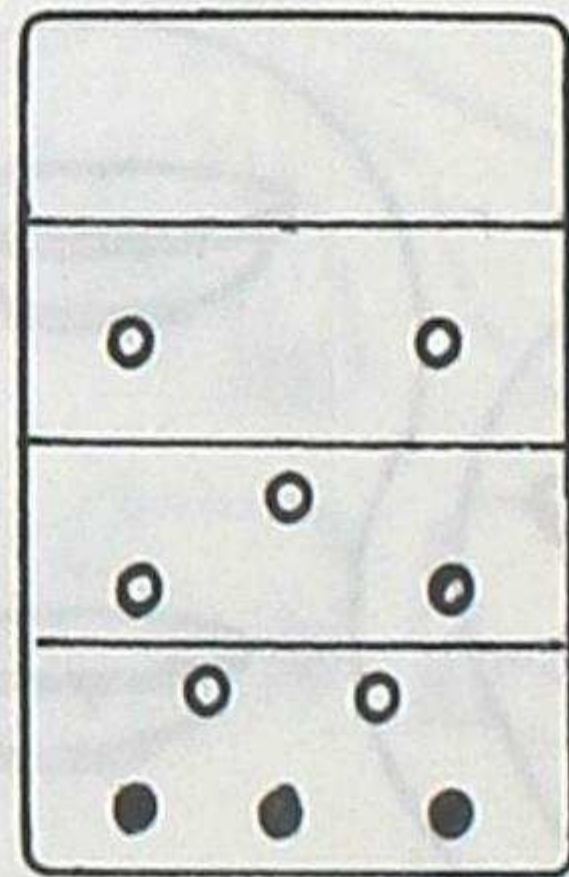
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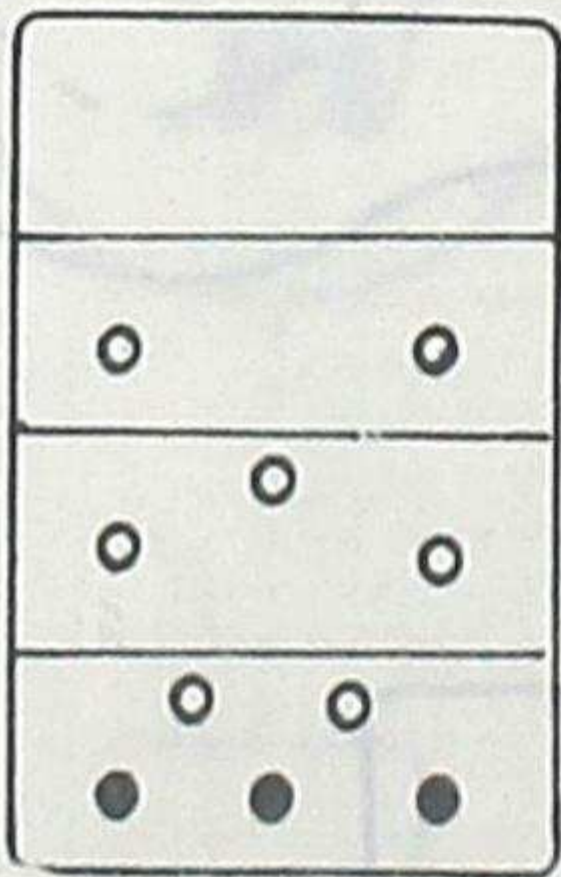
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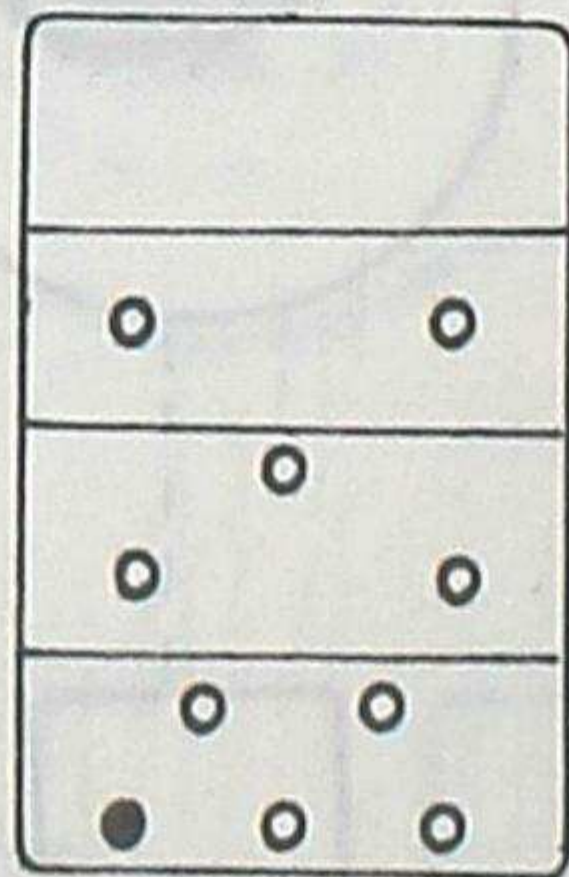
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$$\begin{array}{r} + 1 \\ 3 \\ \hline \end{array}$$

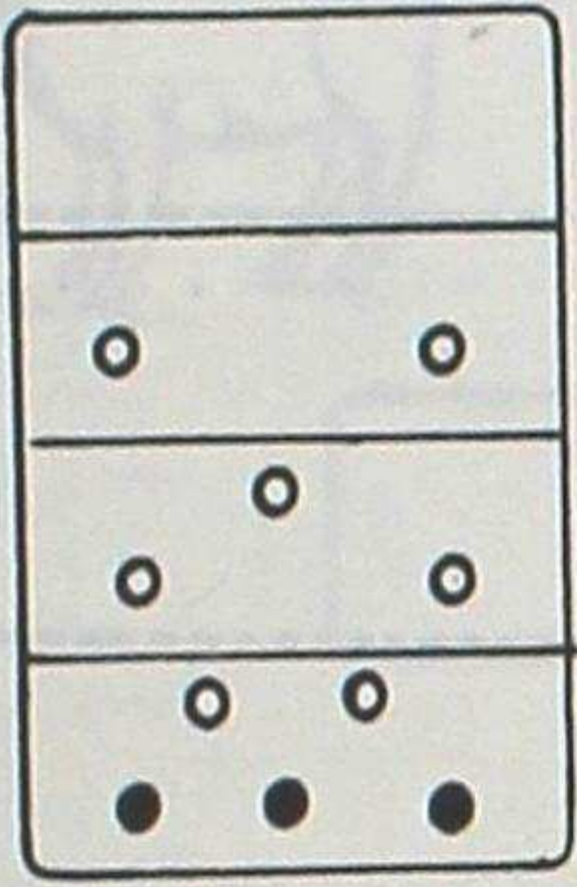


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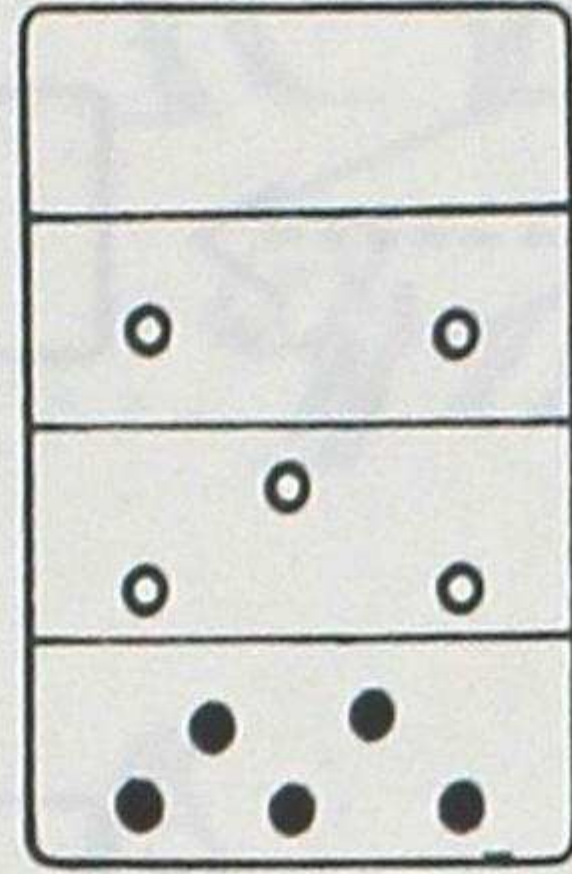


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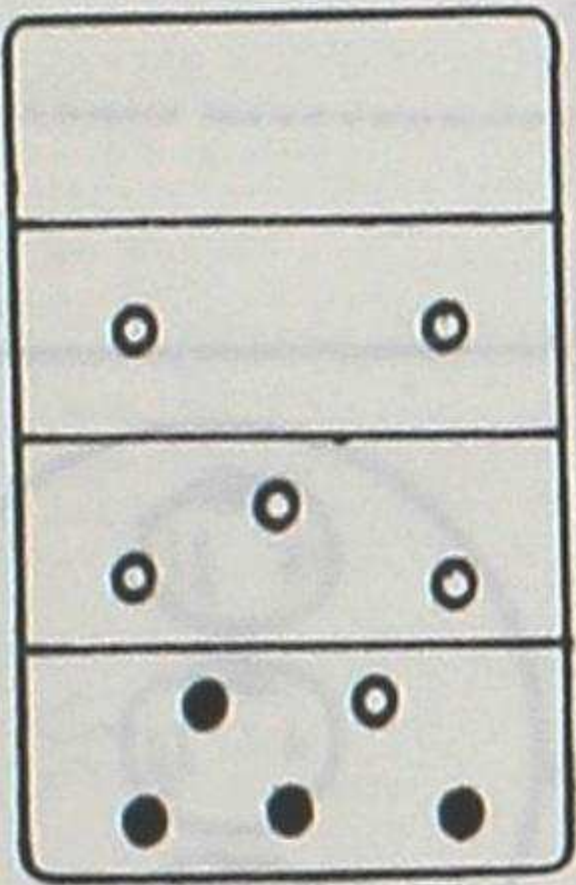




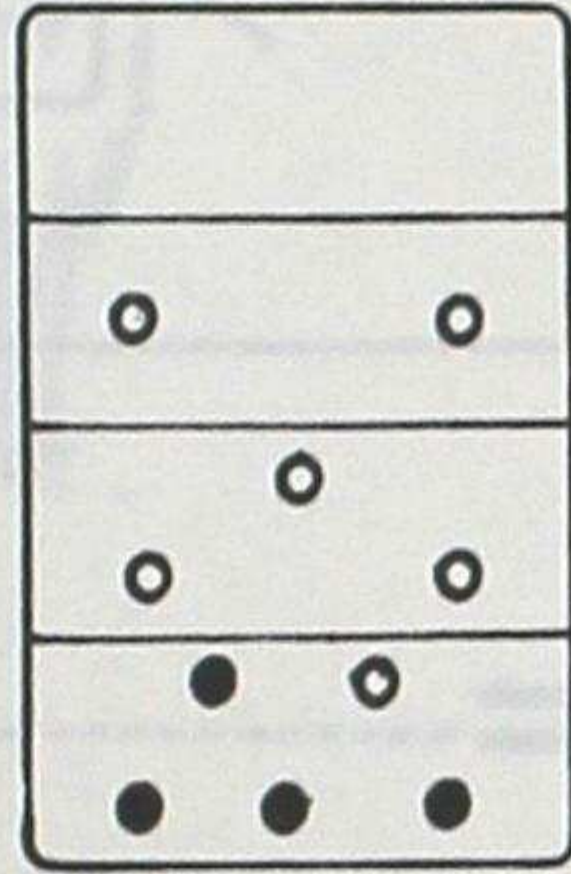
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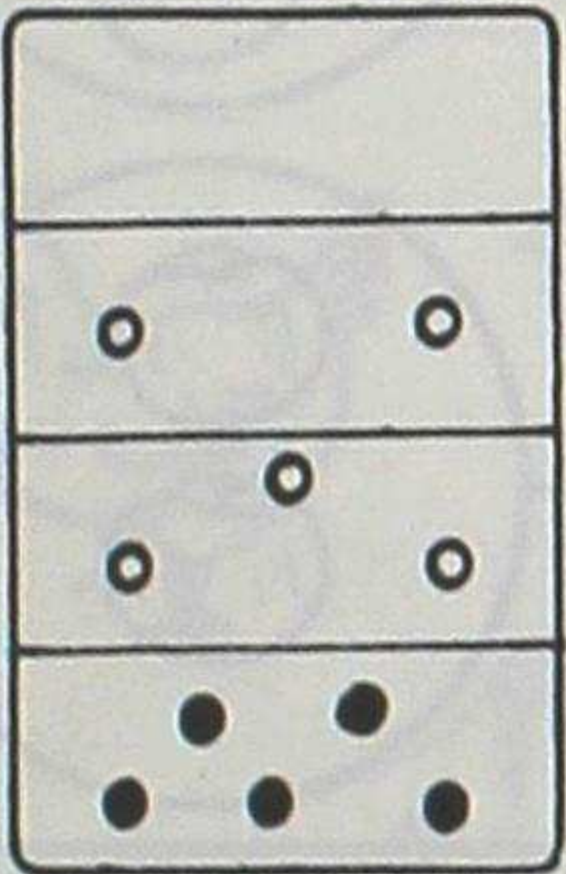
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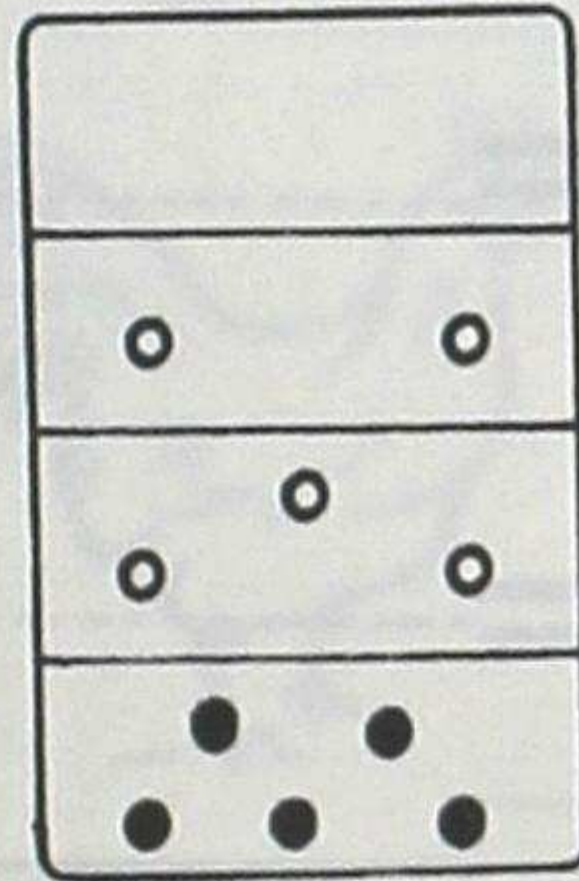
$$\begin{array}{r} + 2 \\ \hline 4 \end{array}$$



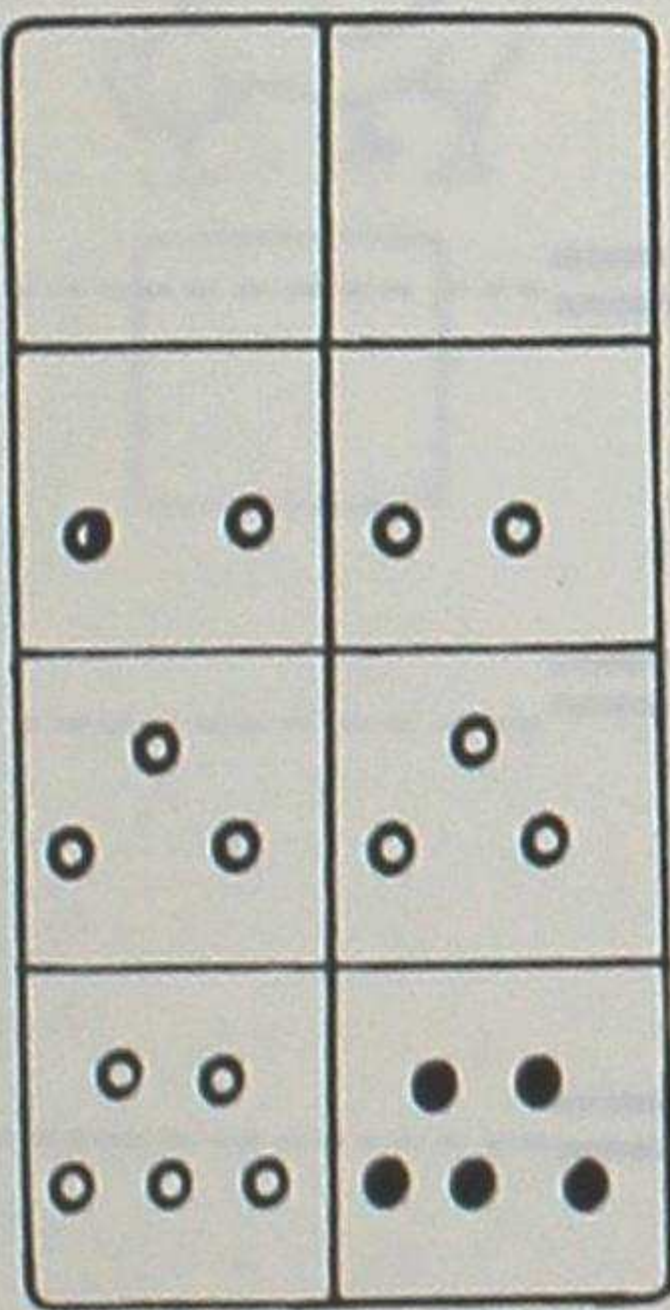
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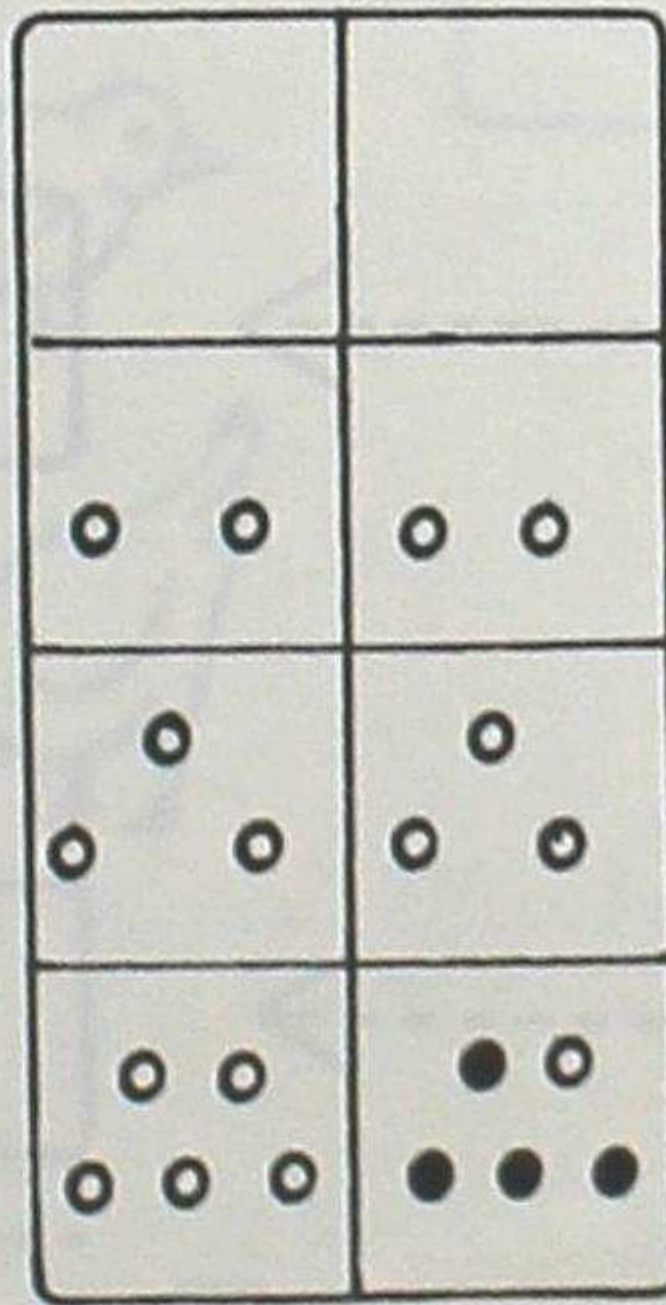
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$$\begin{array}{r} + 4 \\ \hline 5 \end{array}$$

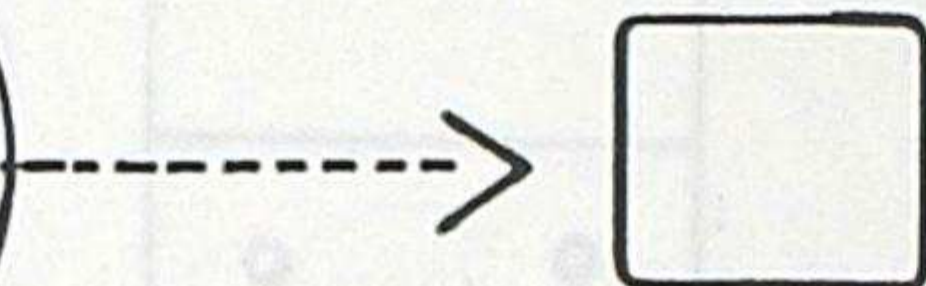
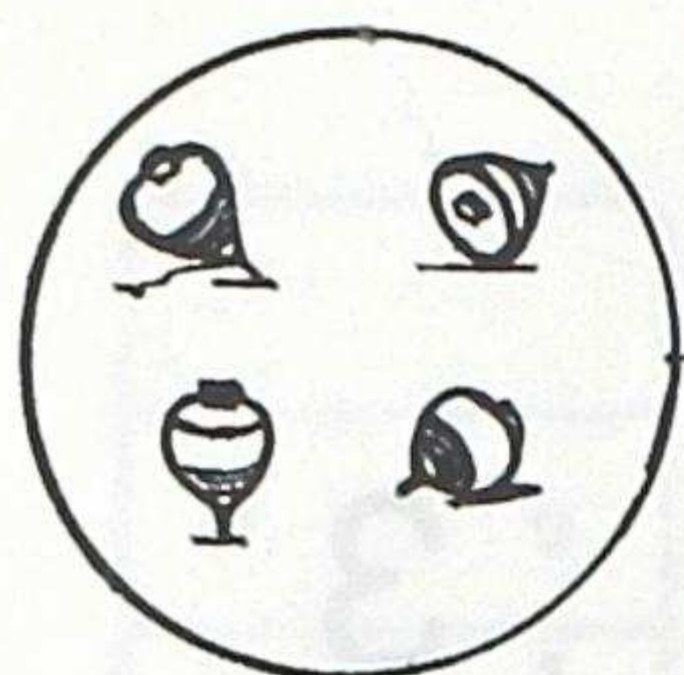


$$\begin{array}{r} + 5 \\ \hline 5 \end{array}$$

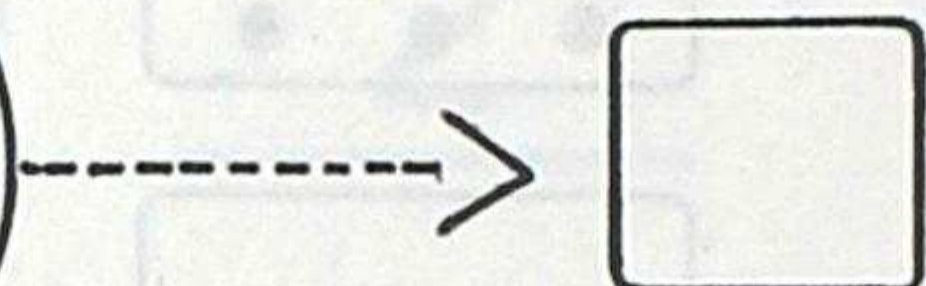
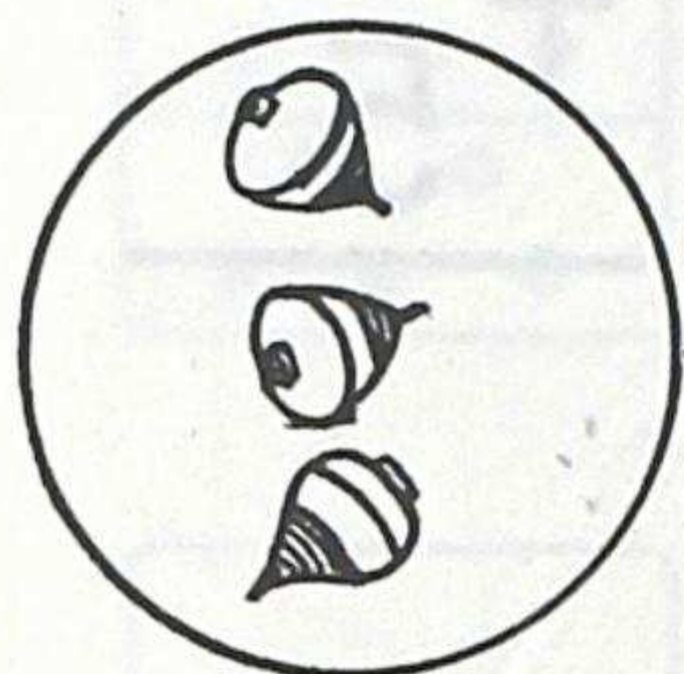


$$\begin{array}{r} + 6 \\ \hline 4 \end{array}$$





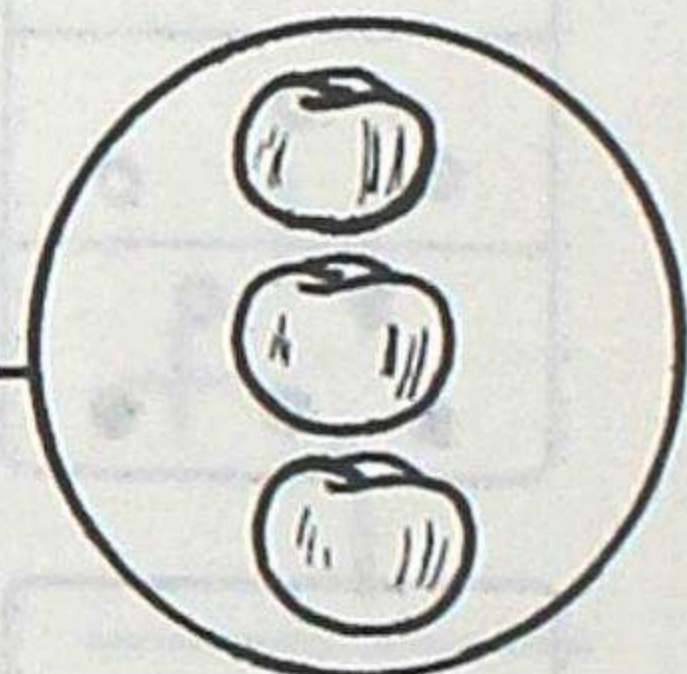
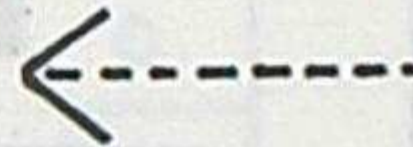
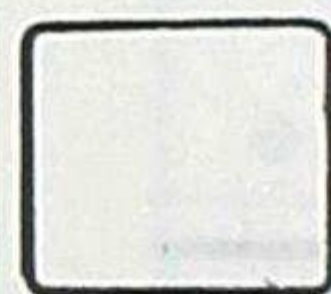
$7 + 2 = \dots$



$4 + 4 = \dots$

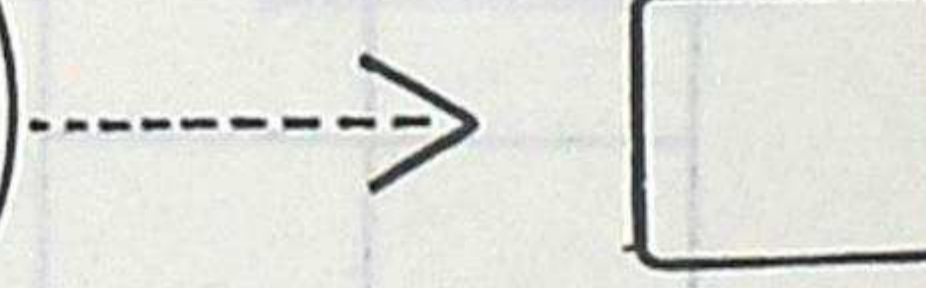
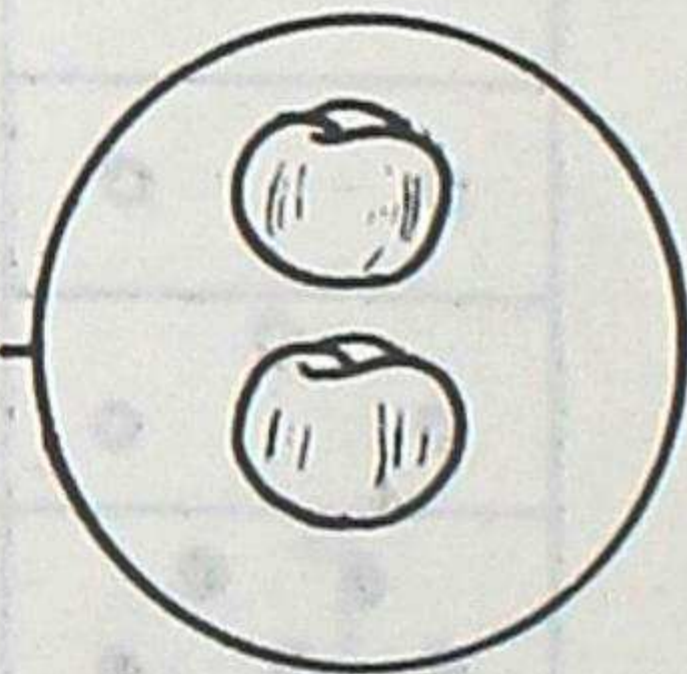
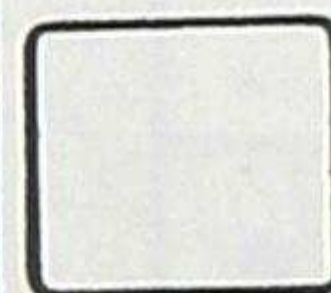
$8 + 1 = \dots$

$2 + 2 = \dots$

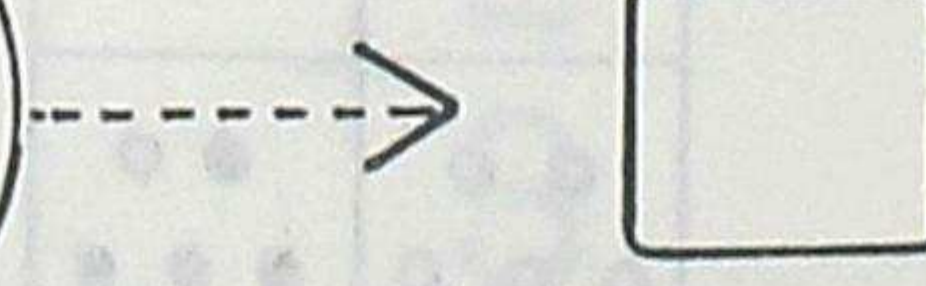


$6 + 2 = \dots$

$2 + 1 = \dots$



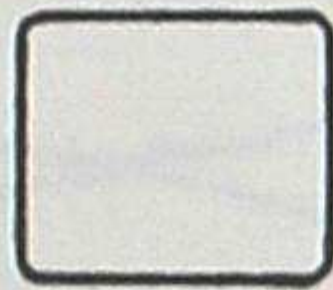
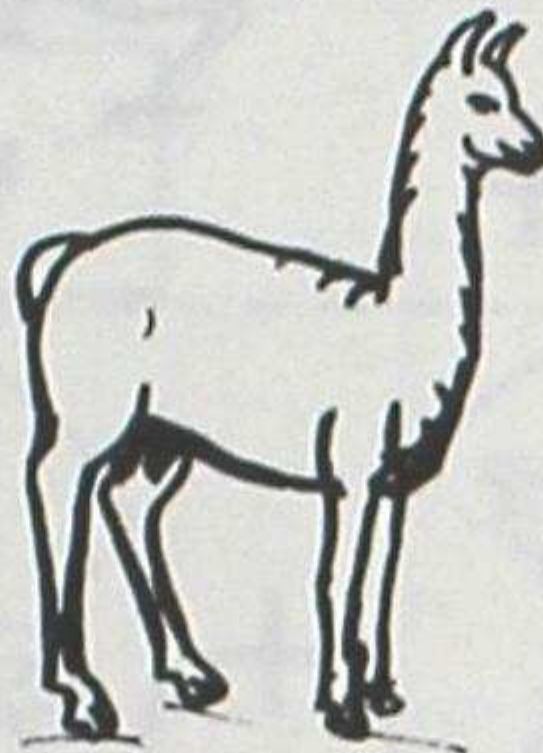
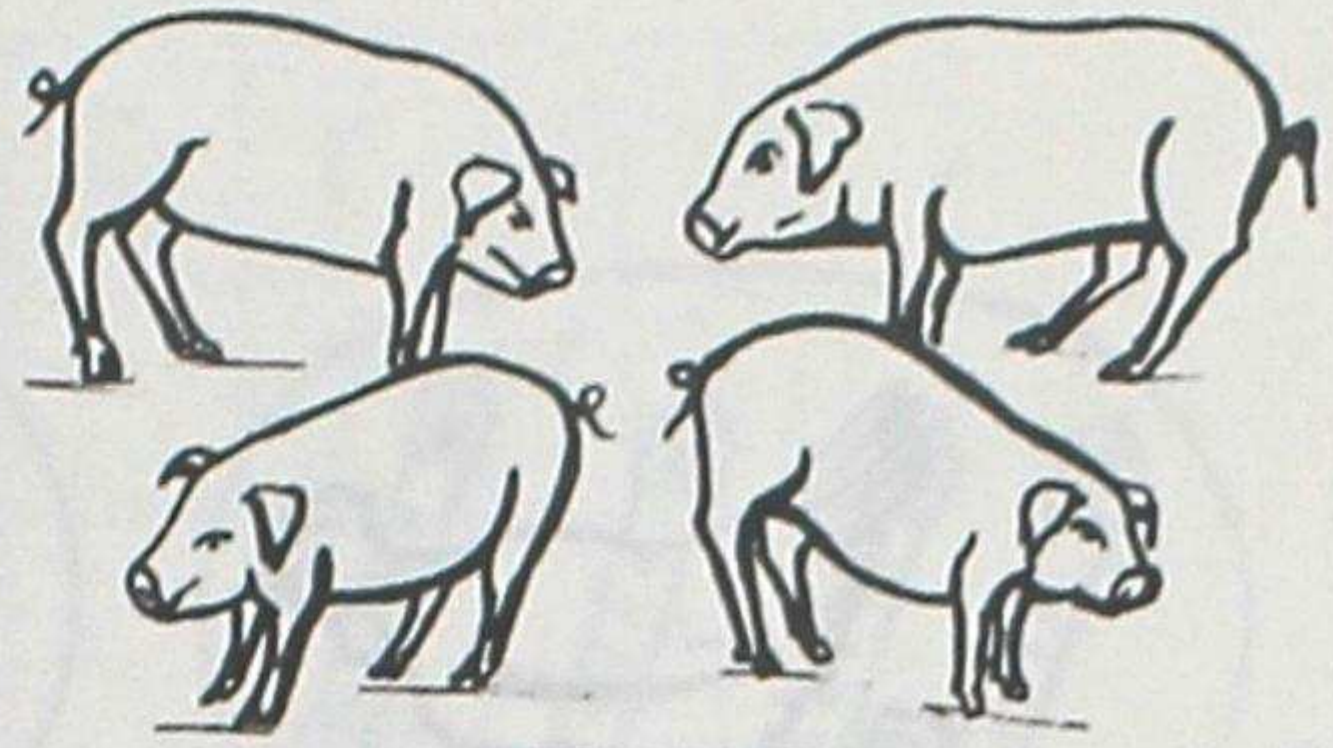
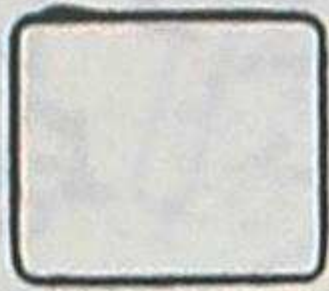
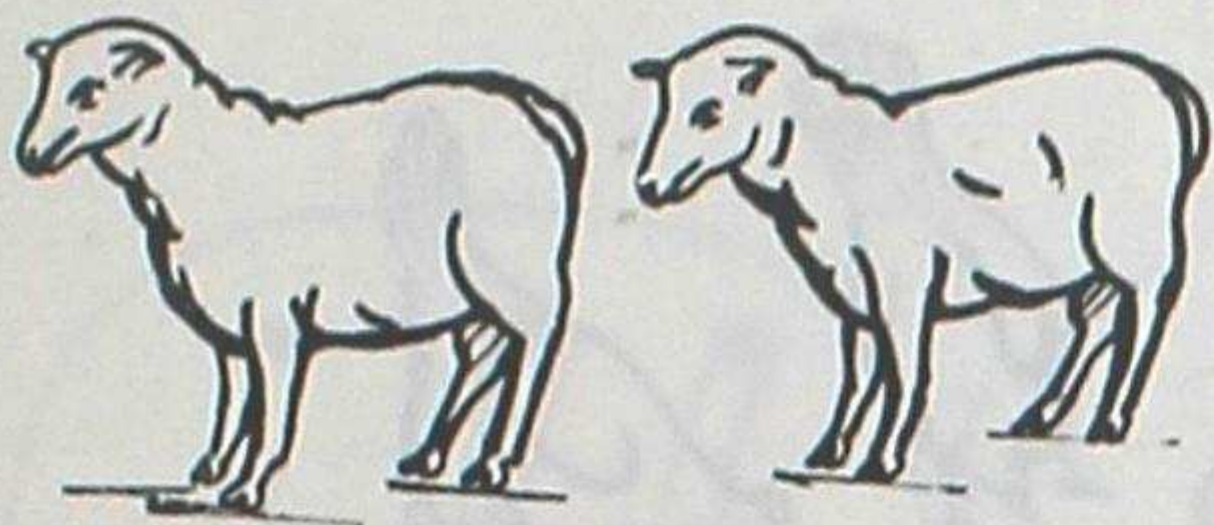
$4 + 2 = \dots$



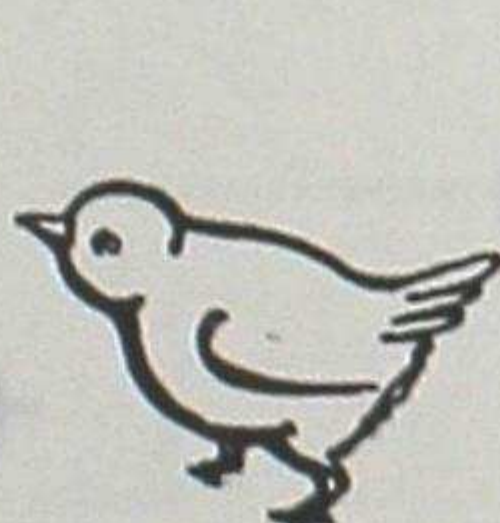
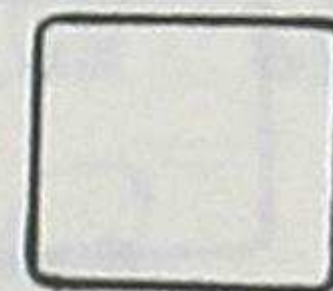
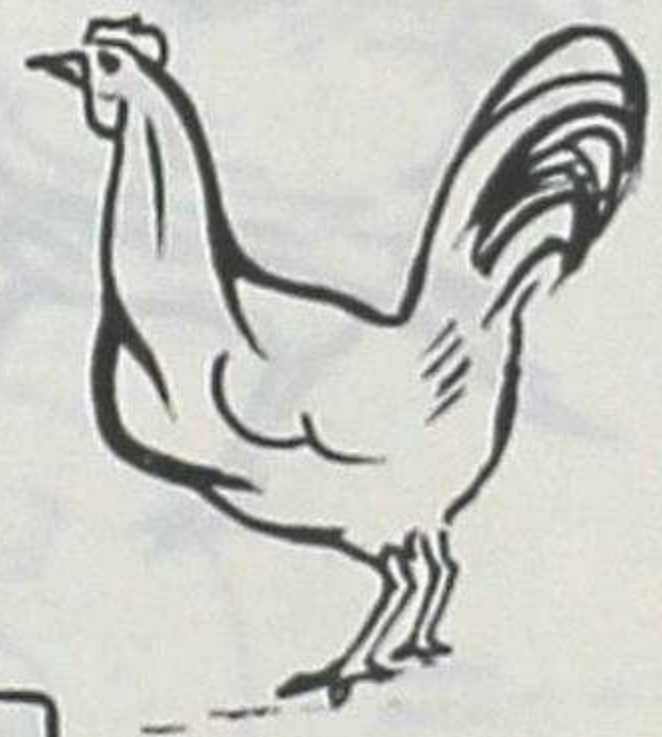
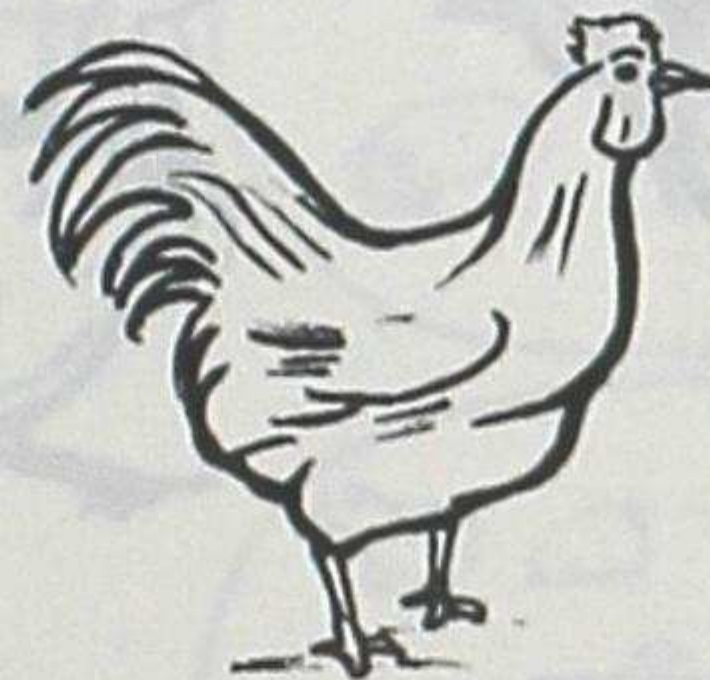
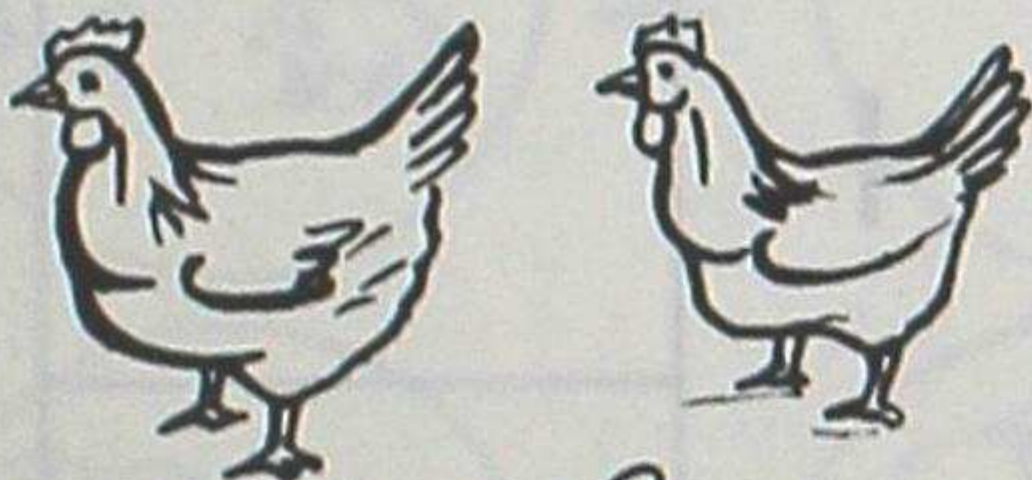
$7 + 3 = \dots$

$5 + 5 = \dots$



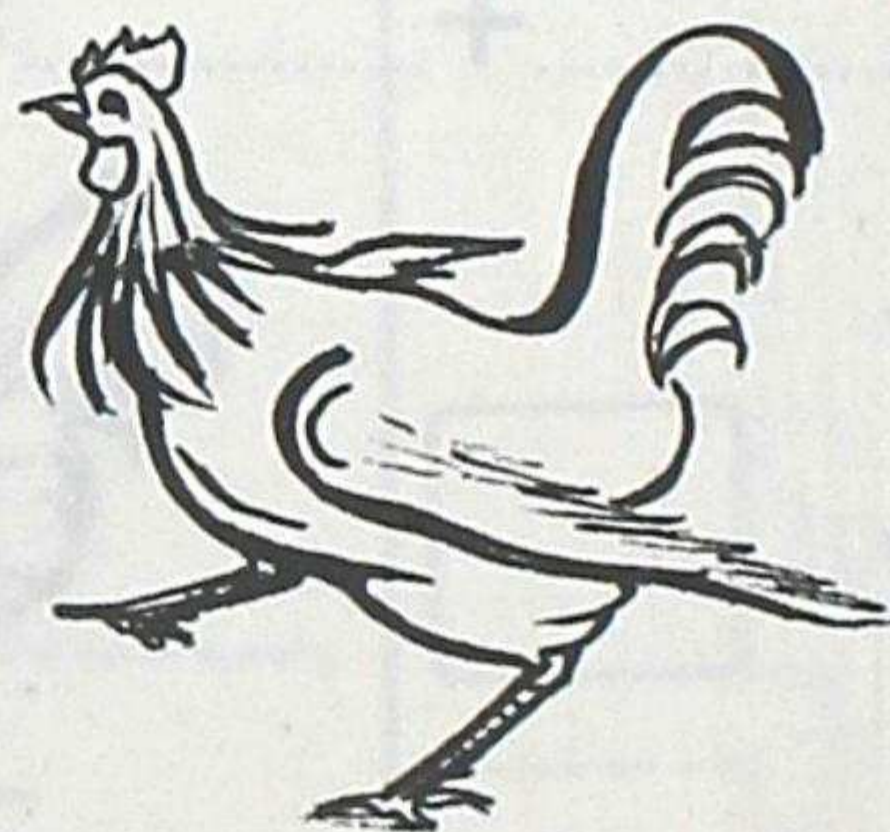
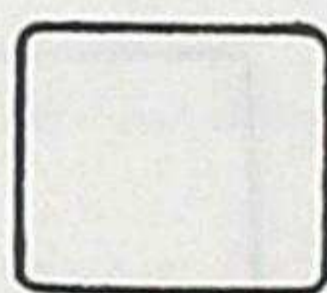
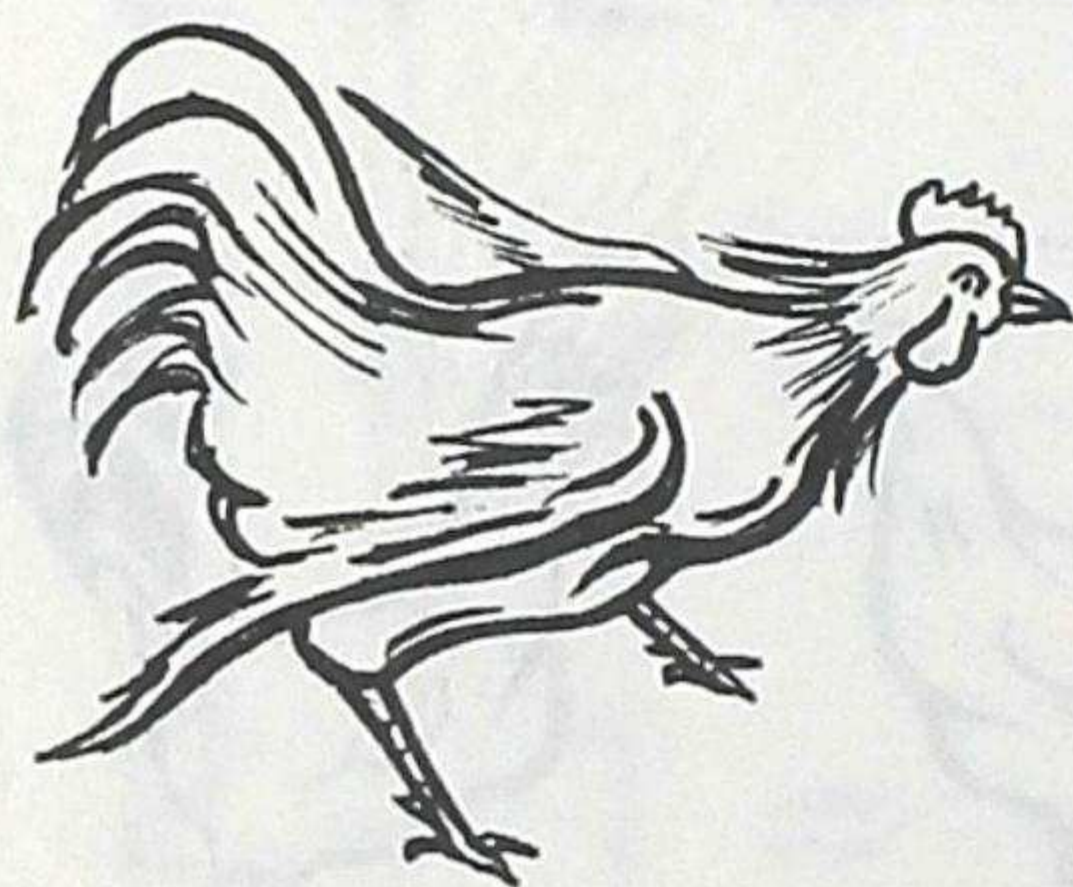
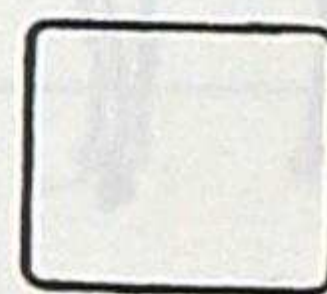
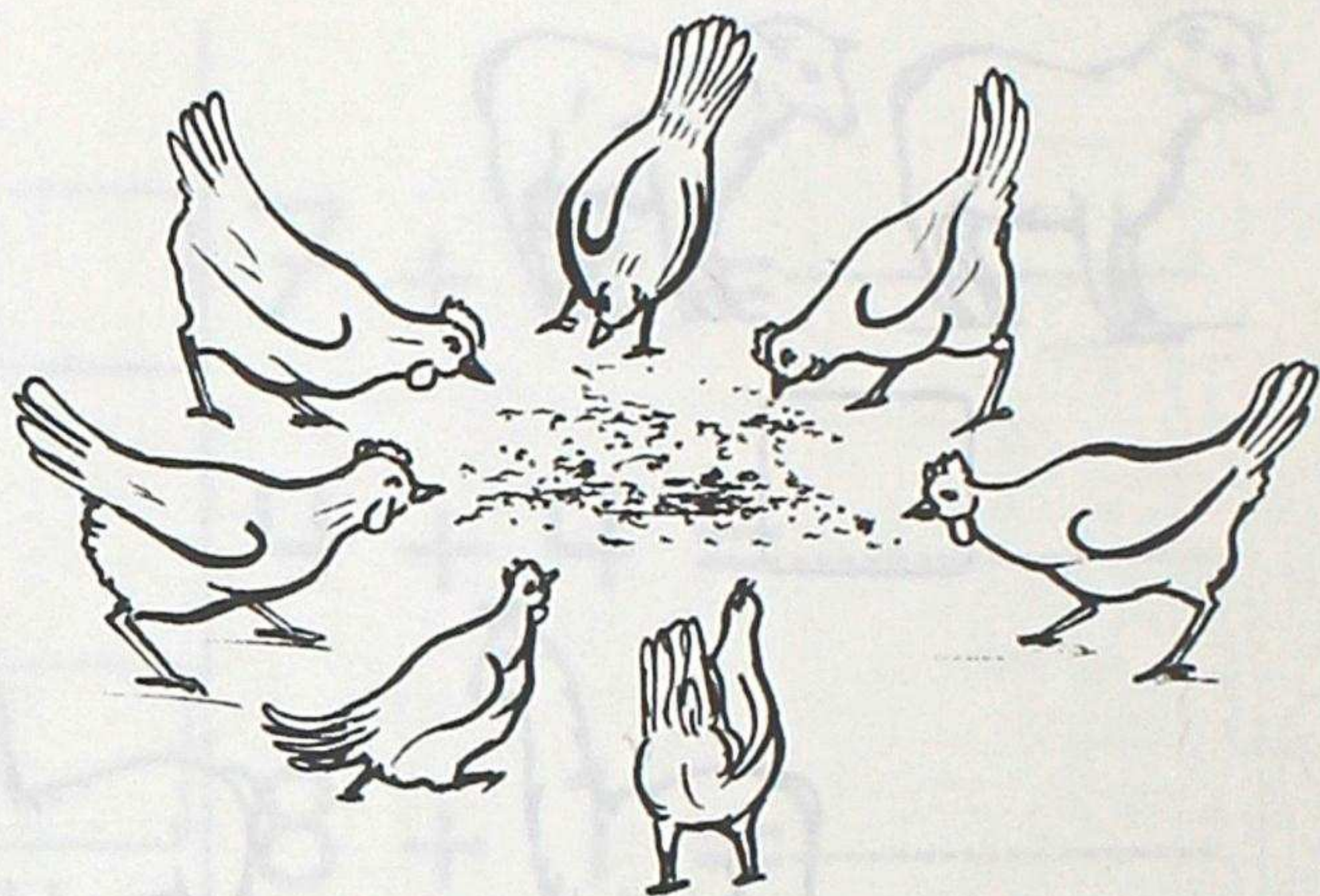
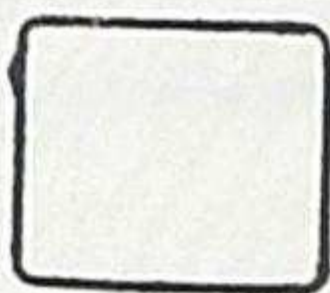
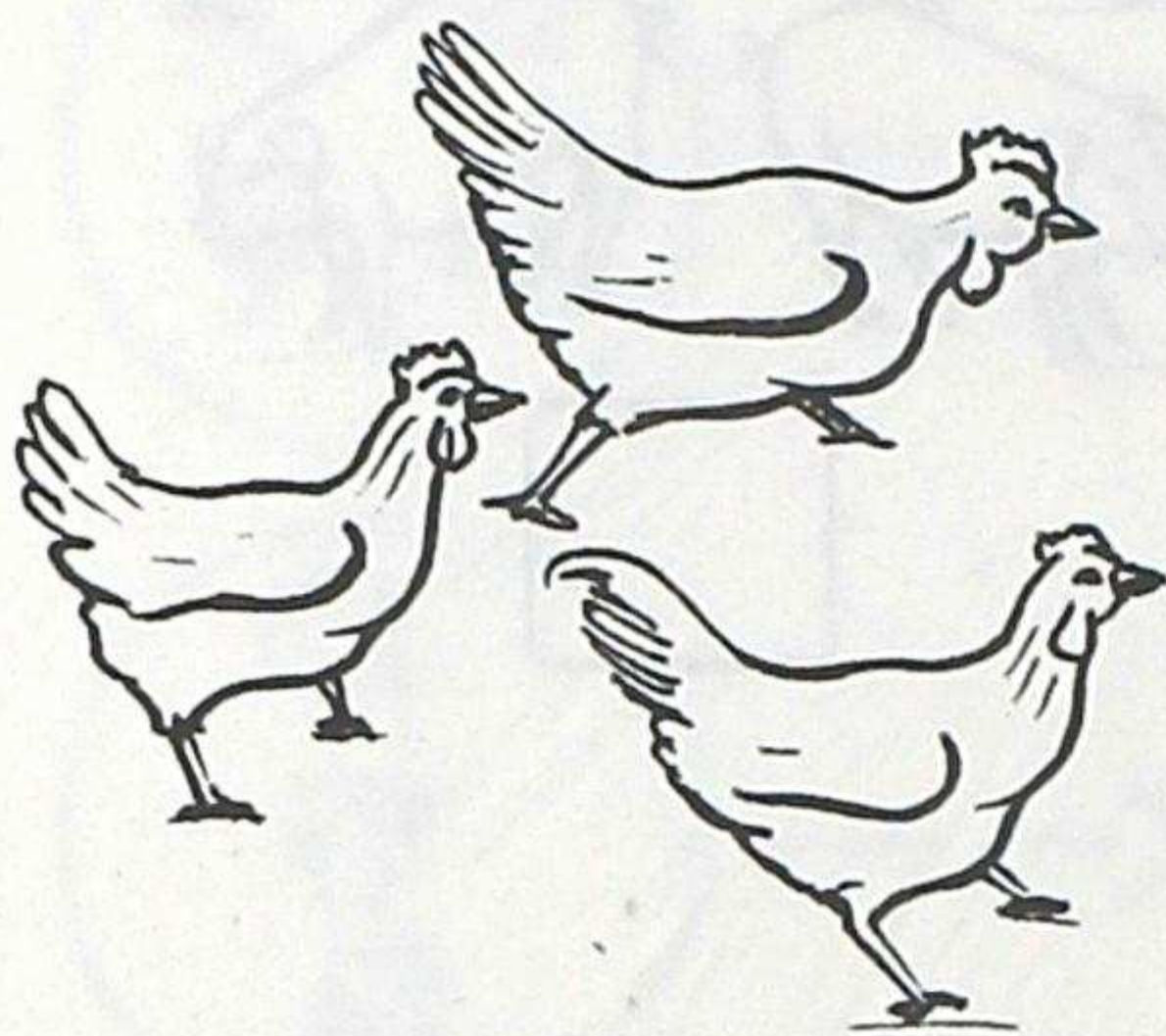


..... + ..... + ..... = .....

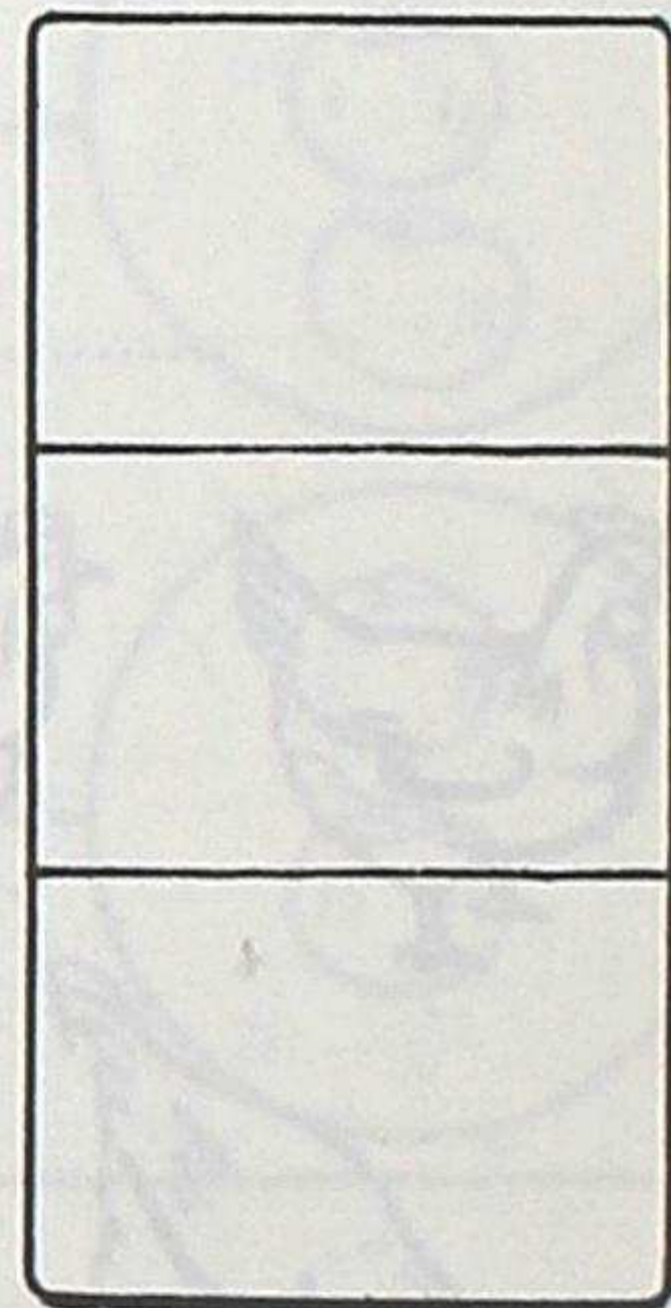


..... + ..... + ..... = .....





+



$$\begin{array}{r} 5 \\ + 4 \\ \hline 6 \end{array}$$

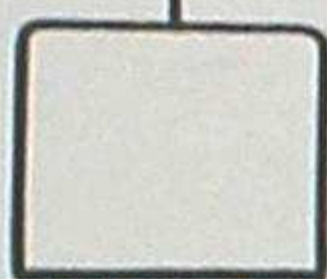
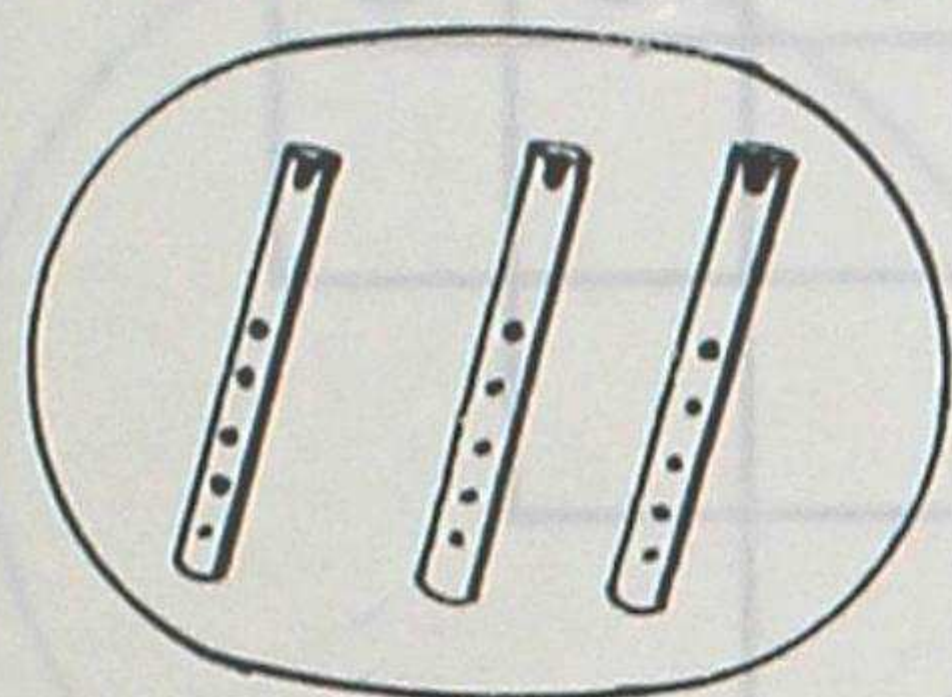
$$\begin{array}{r} 7 \\ + 2 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline 5 \end{array}$$

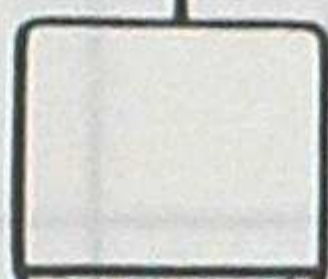
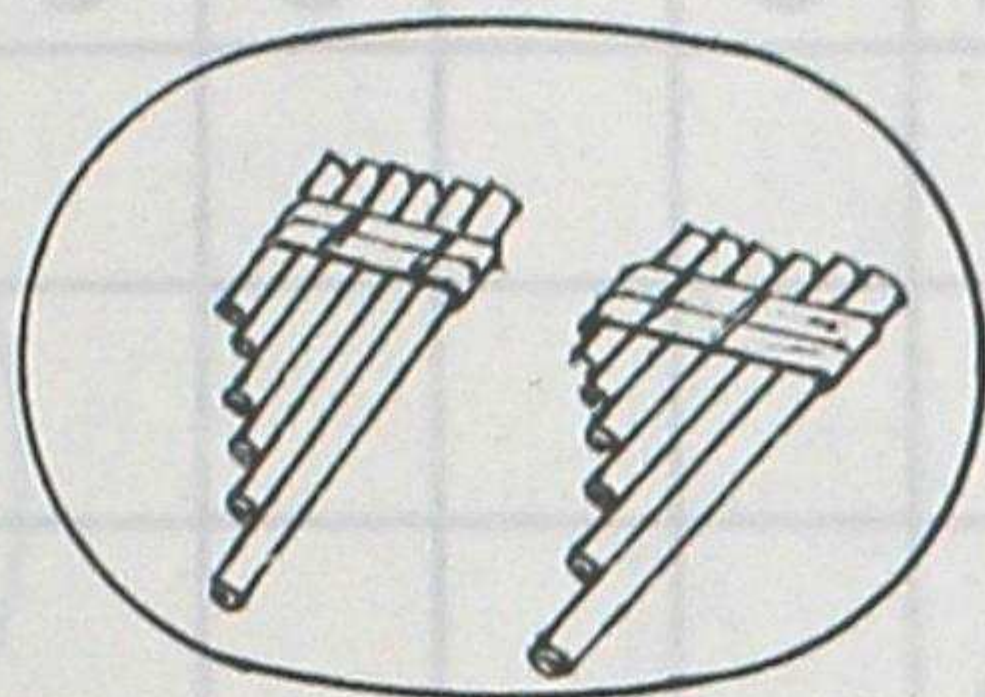
$$\begin{array}{r} 8 \\ + 4 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 5 \\ + 8 \\ \hline 2 \end{array}$$

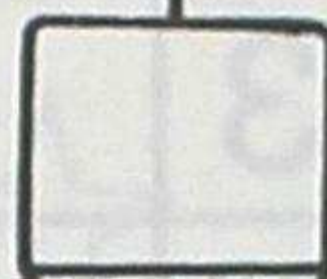
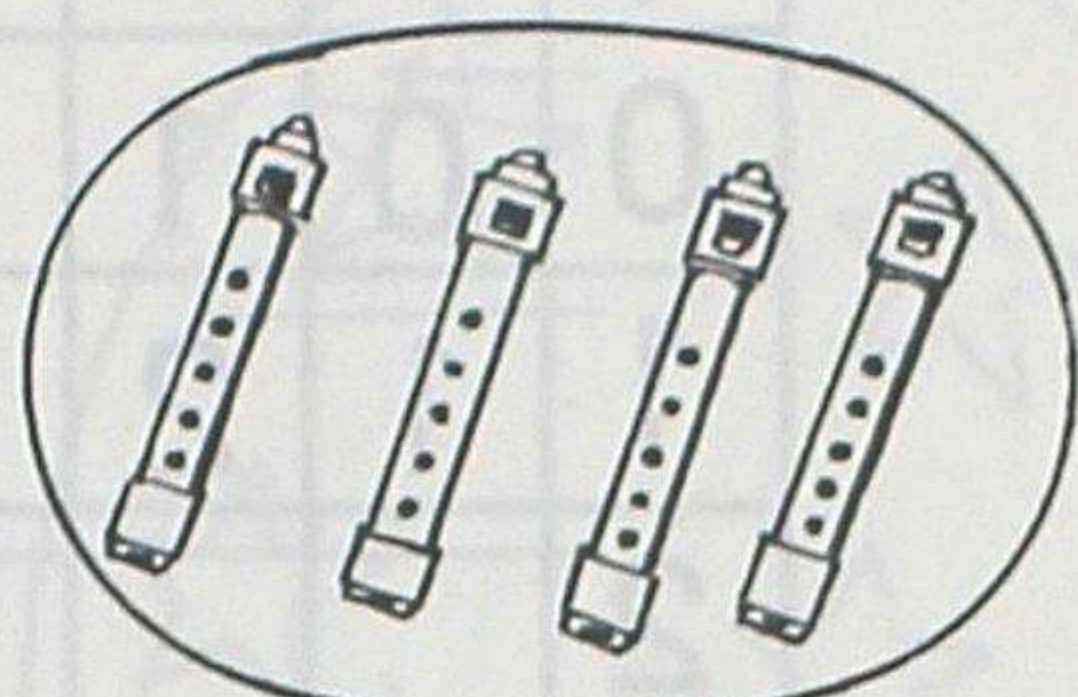




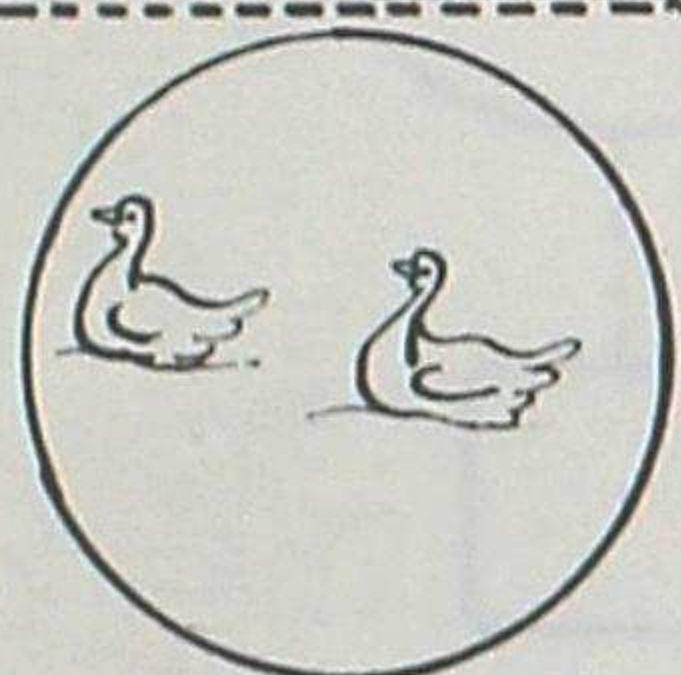
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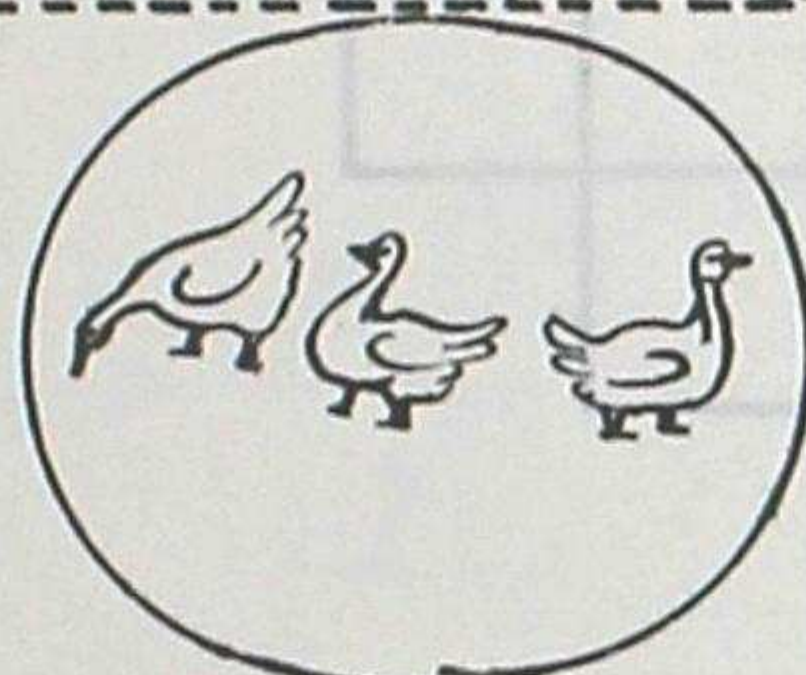
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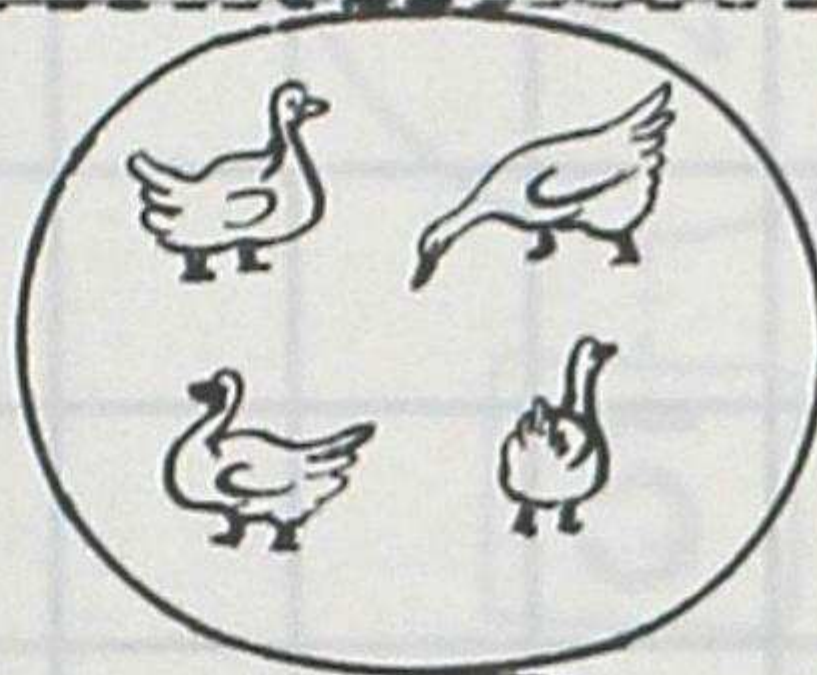
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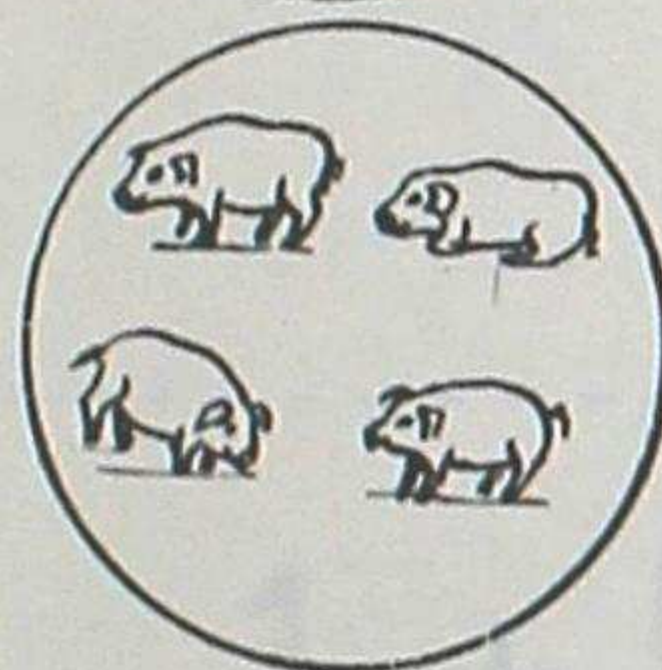
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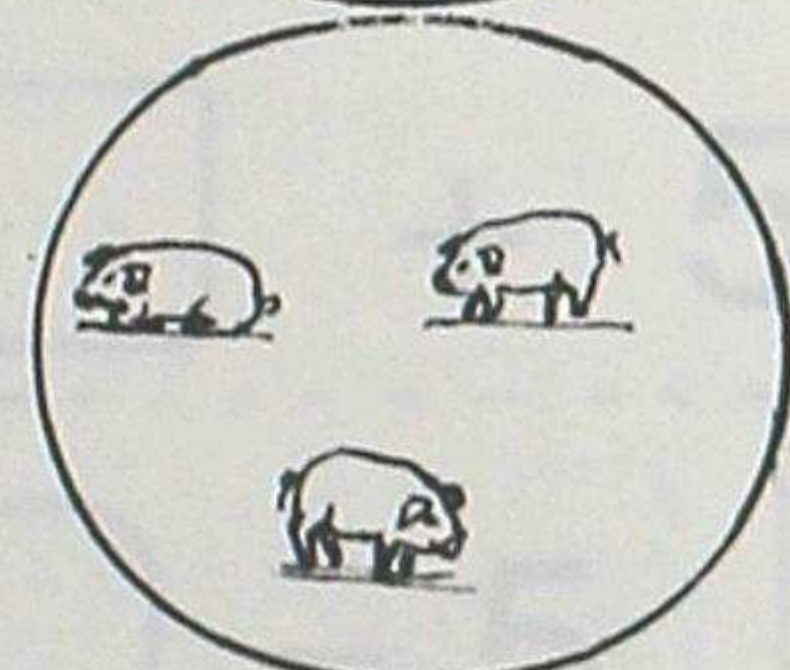
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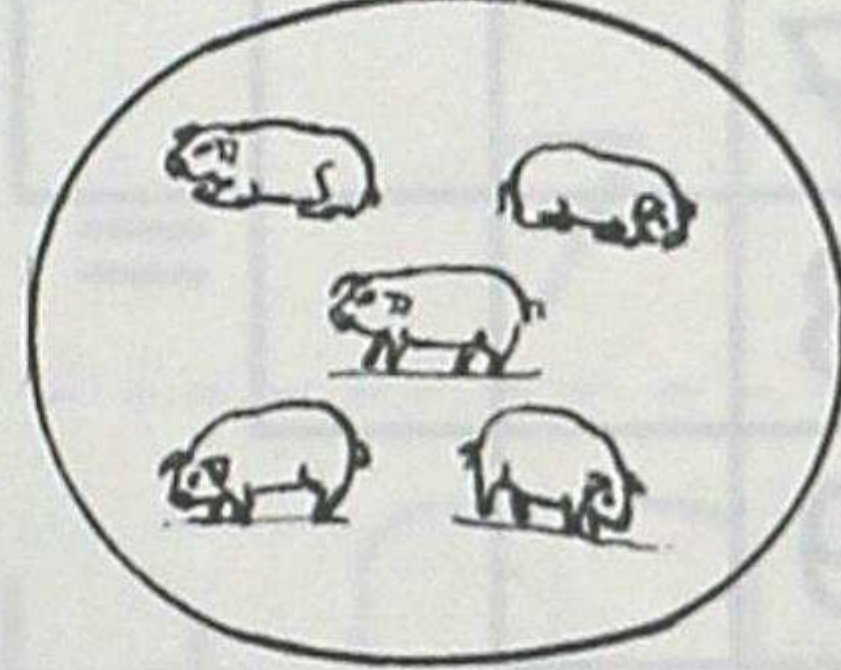
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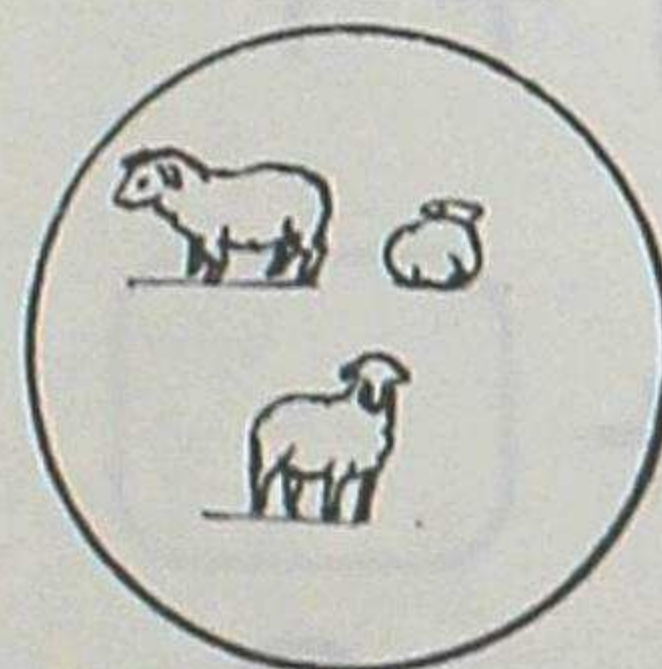
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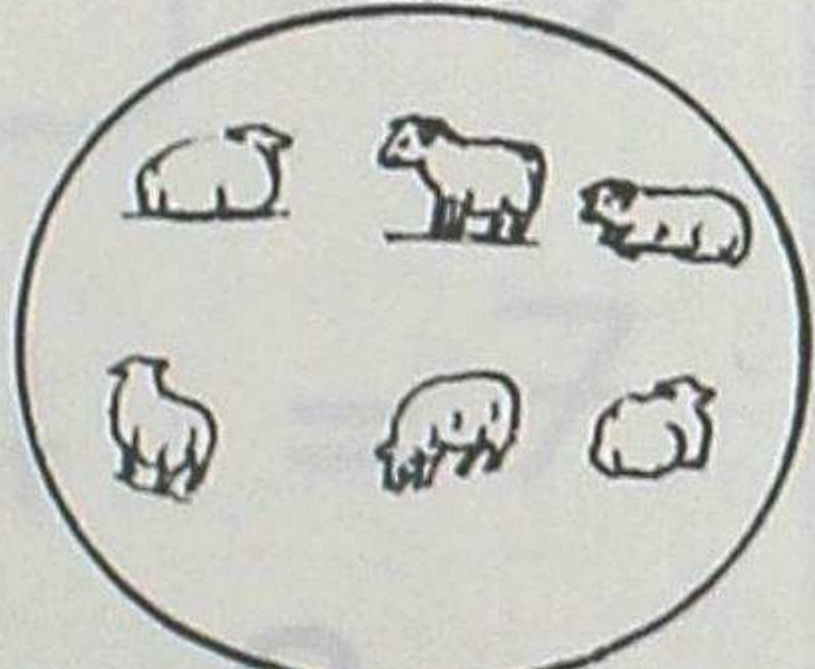
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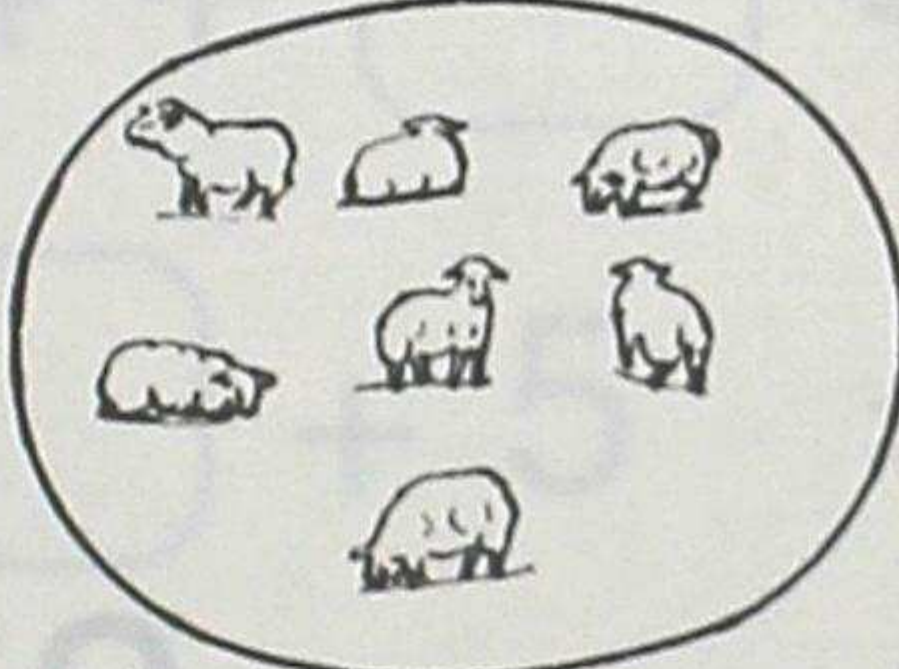
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+



+



=

$$7 + 3 + 2 = \dots$$

$$8 + 2 + 4 = \dots$$

$$4 + 5 + 1 = \dots$$

$$5 + 5 + 3 = \dots$$

$$3 + 7 + 9 = \dots$$

$$6 + 3 + 1 = \dots$$



+	0	1	2	3	4	5	6	7	8	9
0	0	1								
1	1	2								
2			4							
3										
4										
5										
6										
7										
8										
9										

$$\begin{array}{r} 1 \\ + 2 \\ \hline 4 \end{array}$$

.....

$$\begin{array}{r} 2 \\ + 2 \\ \hline 2 \end{array}$$

.....

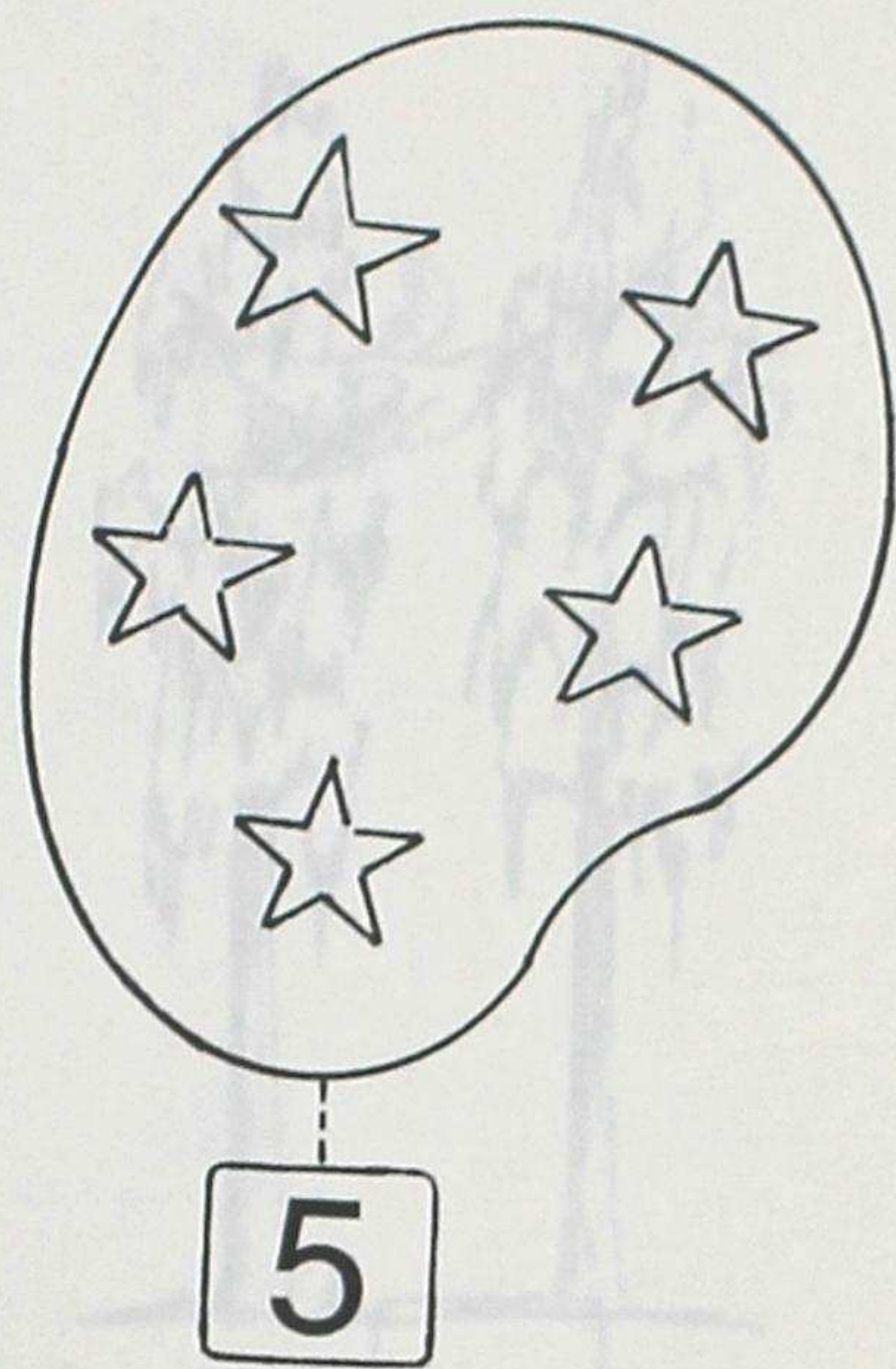
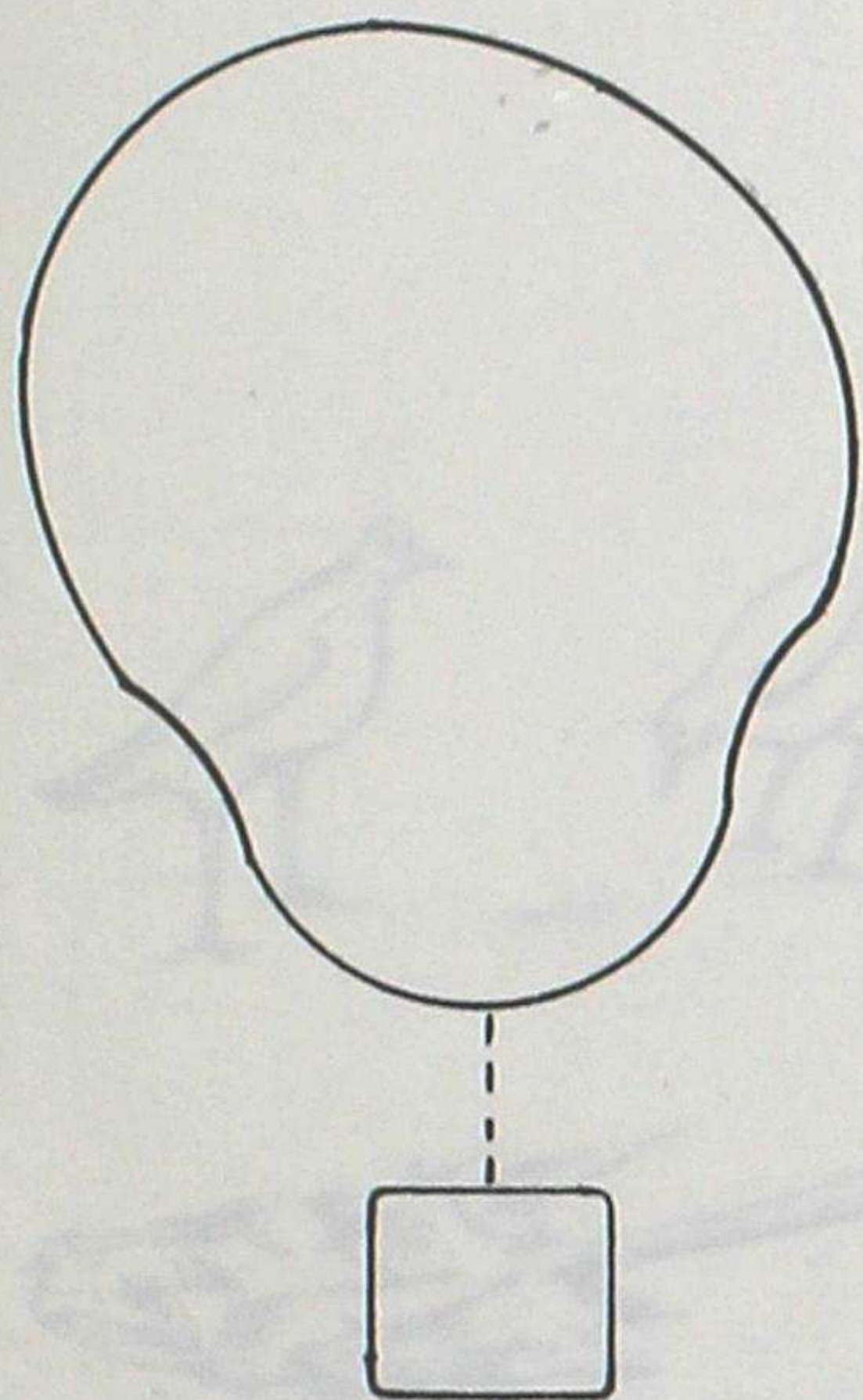
$$\begin{array}{r} 3 \\ + 2 \\ \hline 4 \end{array}$$

.....

$$\begin{array}{r} 3 \\ + 3 \\ \hline 3 \end{array}$$

.....





$$\square + 5 = 7$$

$$1 + \square = 5$$

$$4 + \square = 9$$

$$\square + 4 = 7$$

$$\square + 5 = 8$$

$$9 + \square = 9$$

$$3 + \square = 6$$

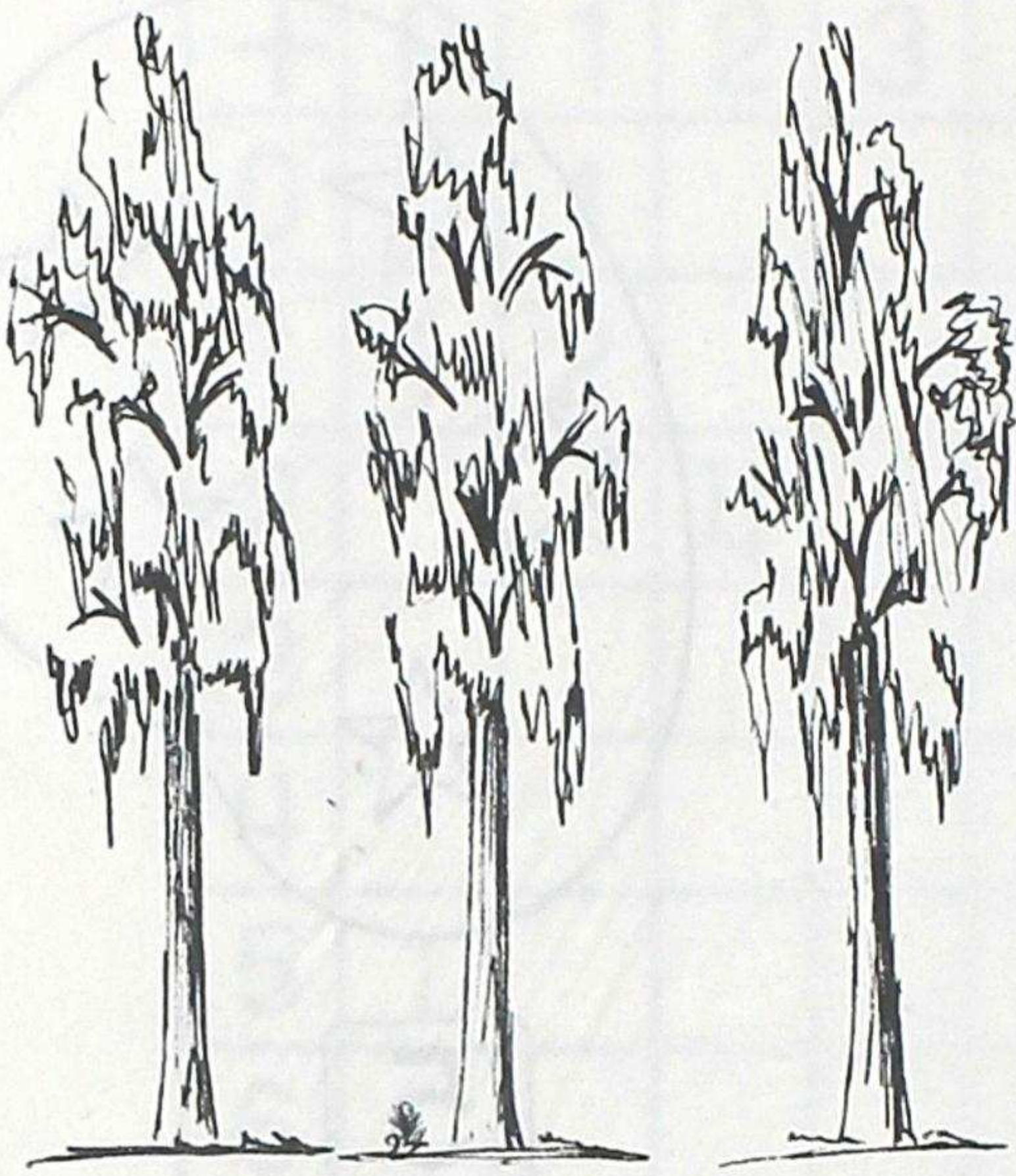
$$\square + 4 = 7$$

$$\square + 2 = 3$$

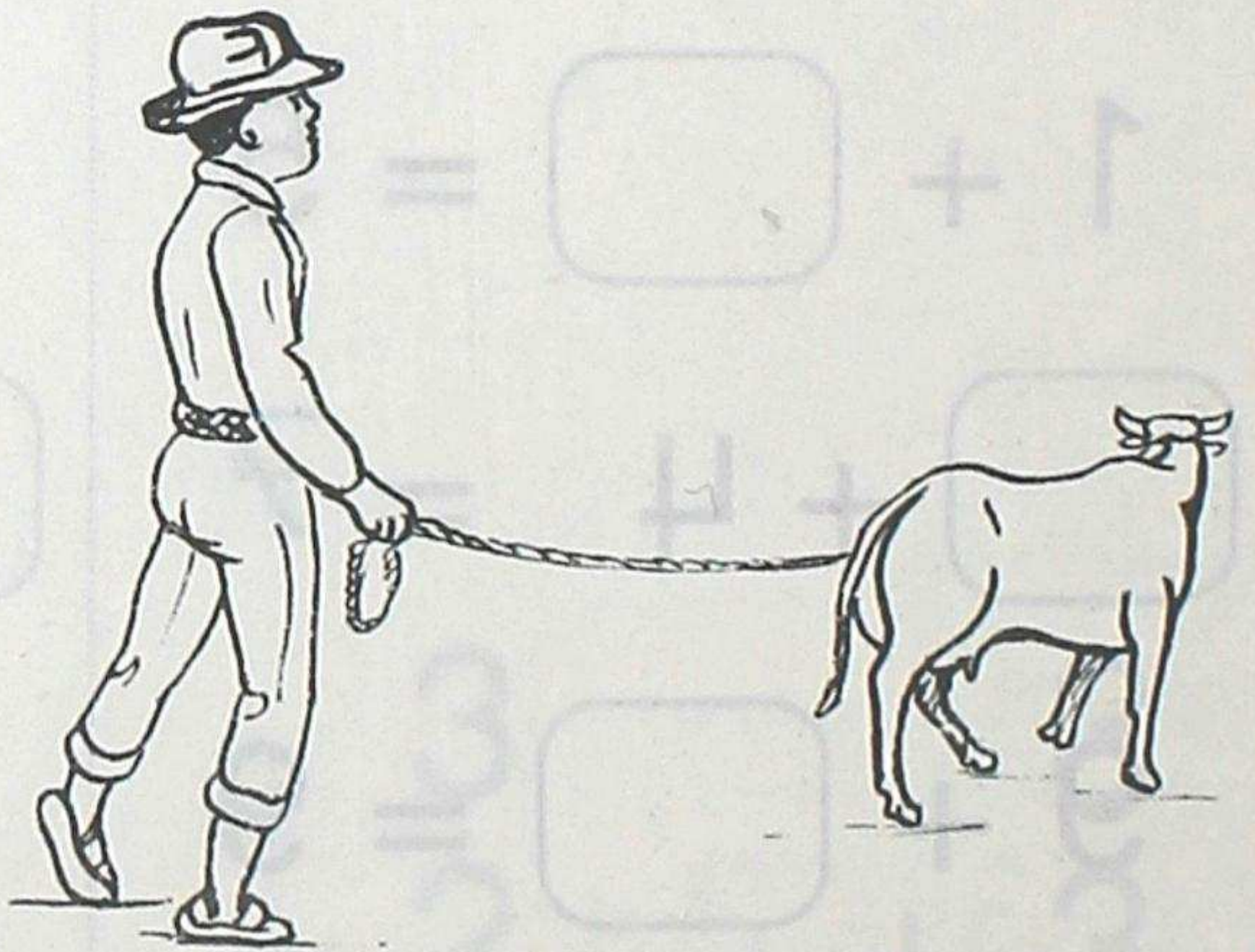
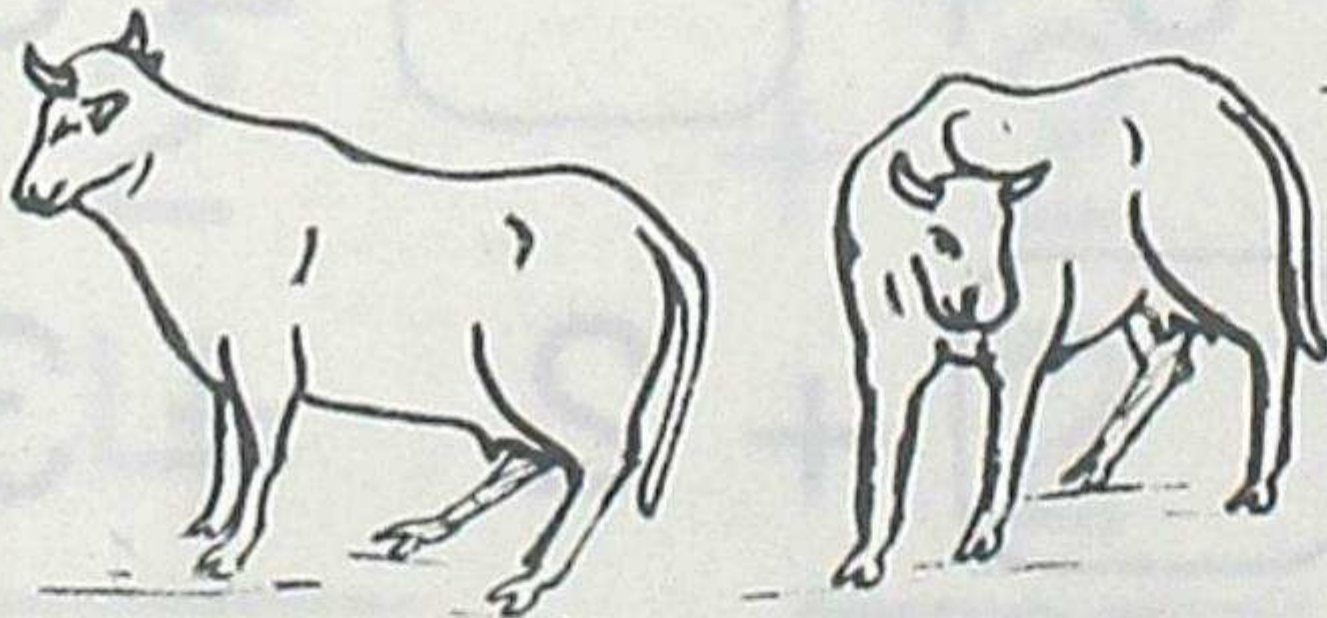
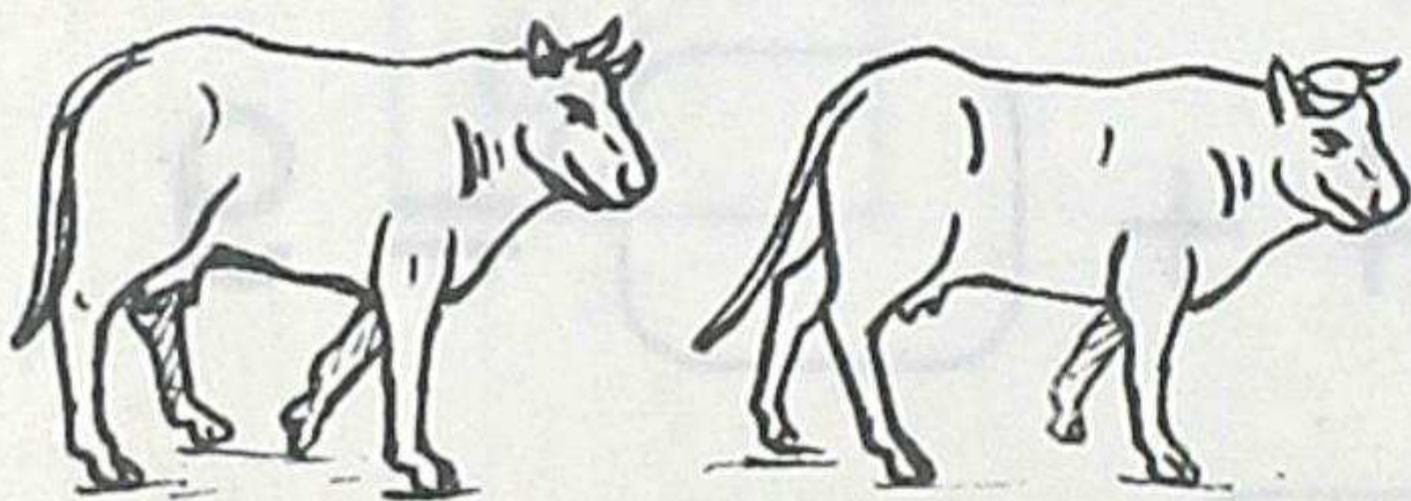
$$5 + \square = 8$$

$$7 + \square = 8$$



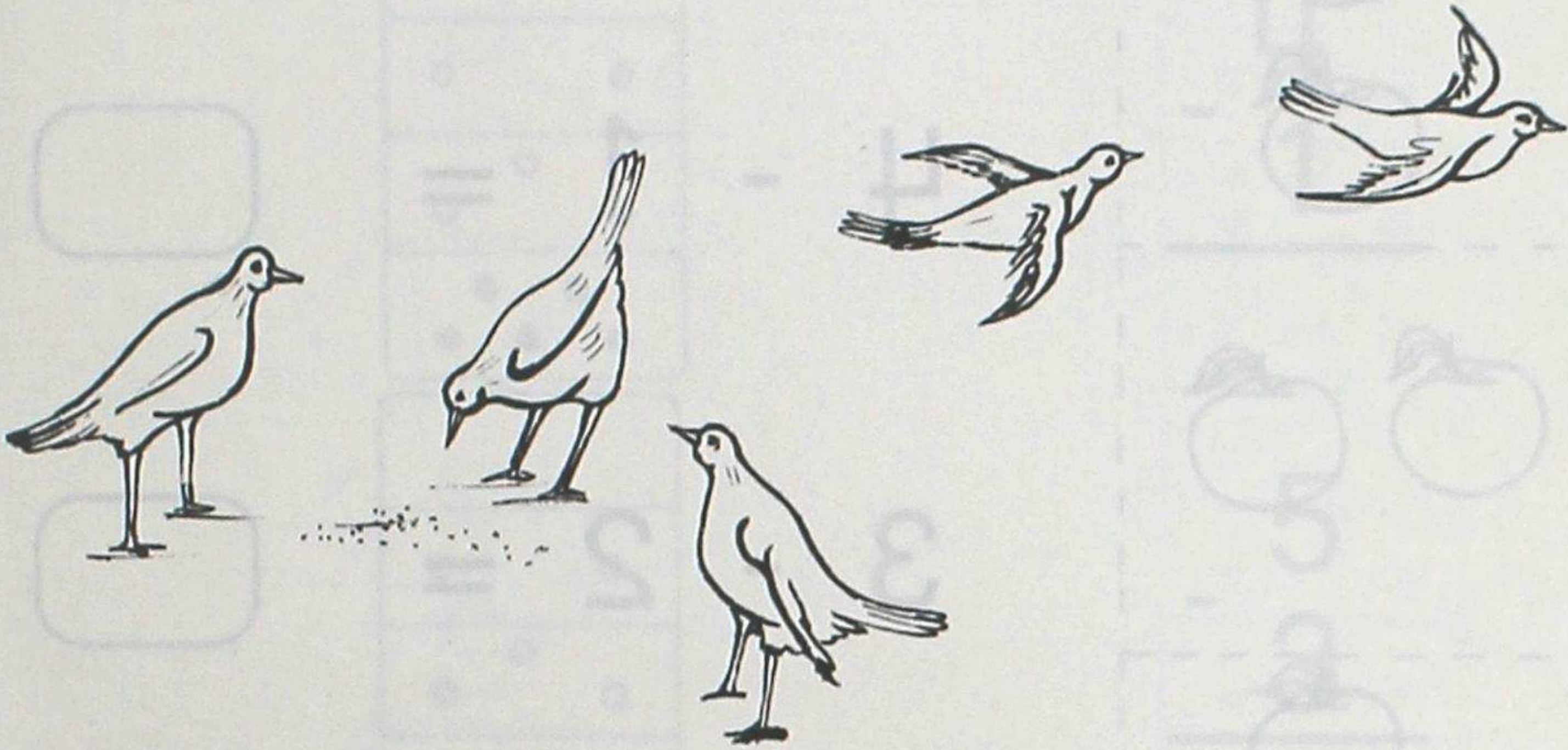


$$4 - 1 = \square$$

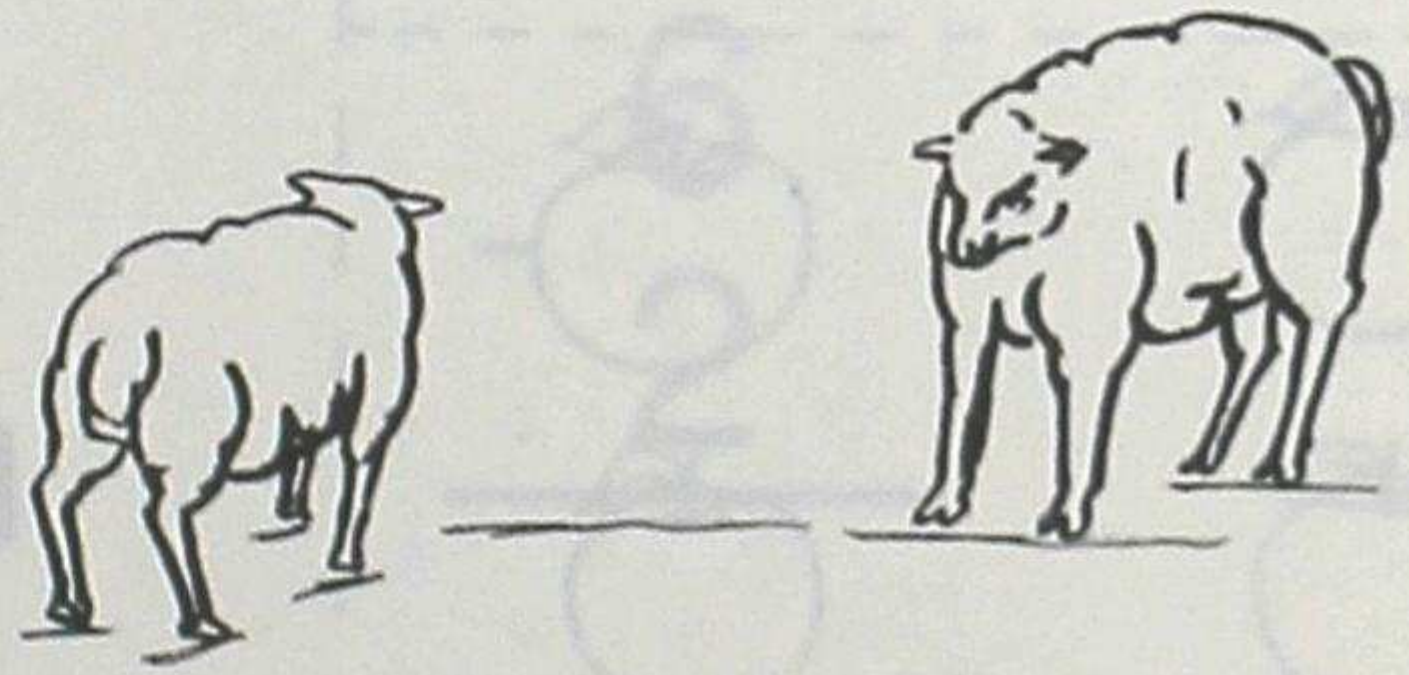
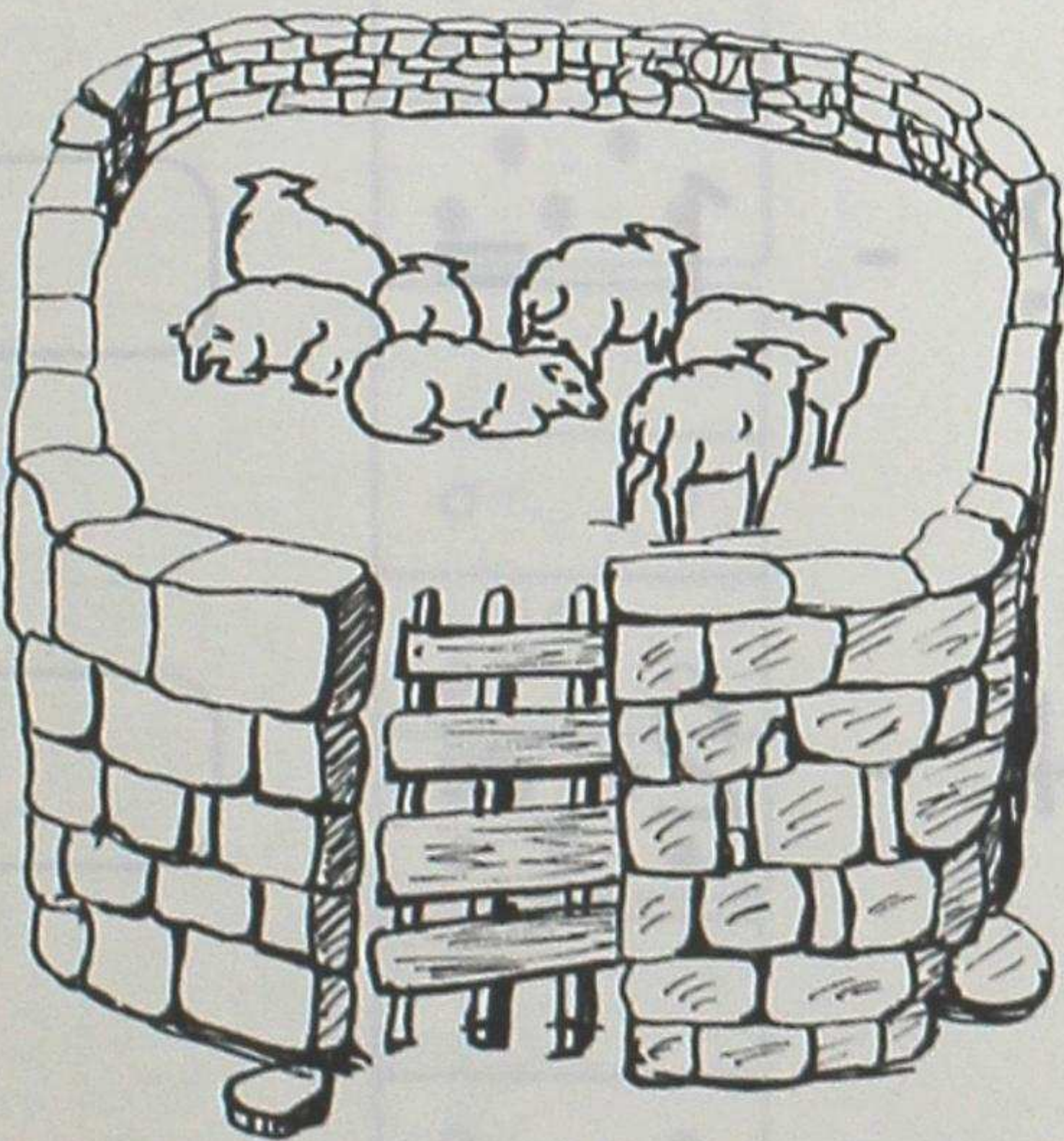


$$6 - 1 = \square$$



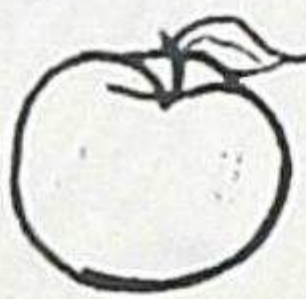
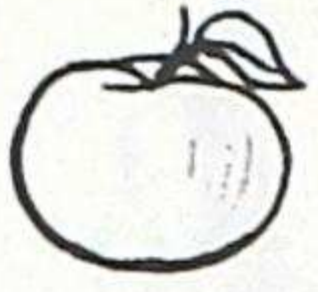


$$5 - 2 = \square$$



$$9 - 2 = \square$$





$$4 - 1 = \square$$

$$3 - 2 = \square$$

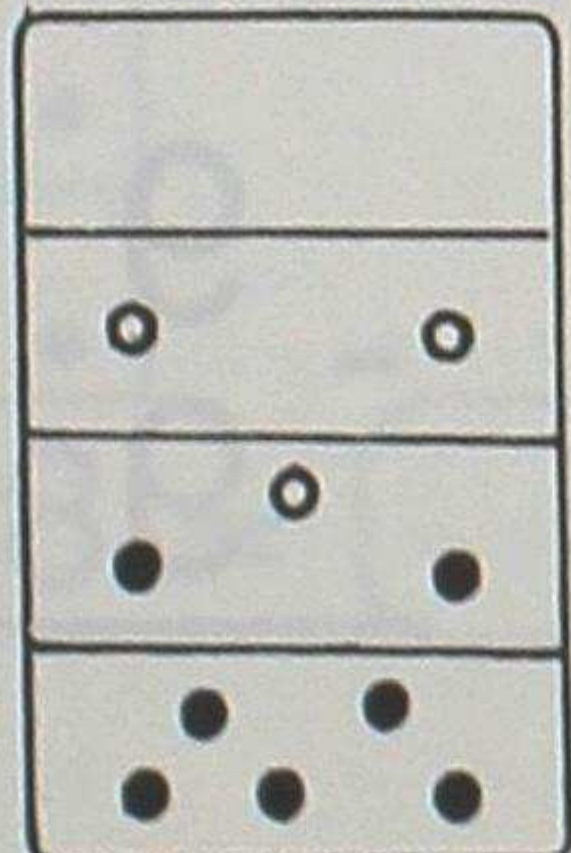
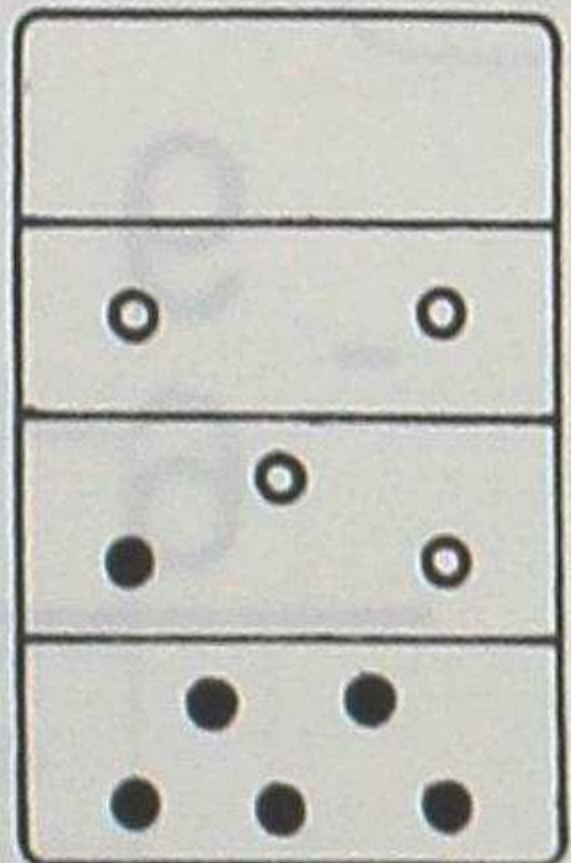
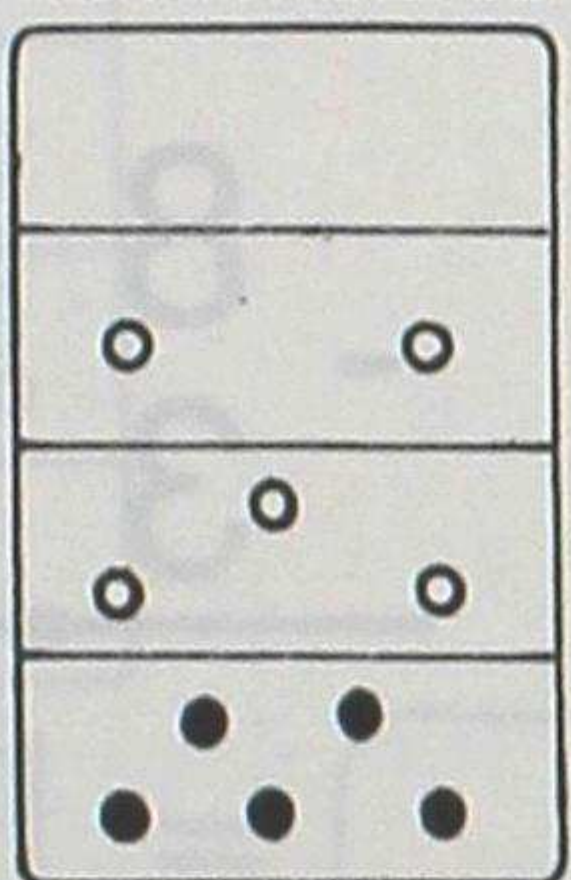
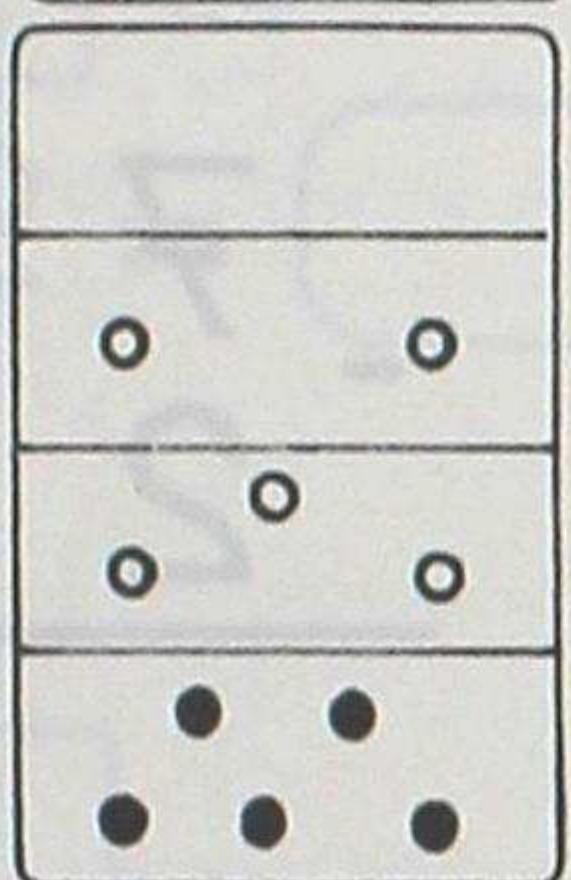
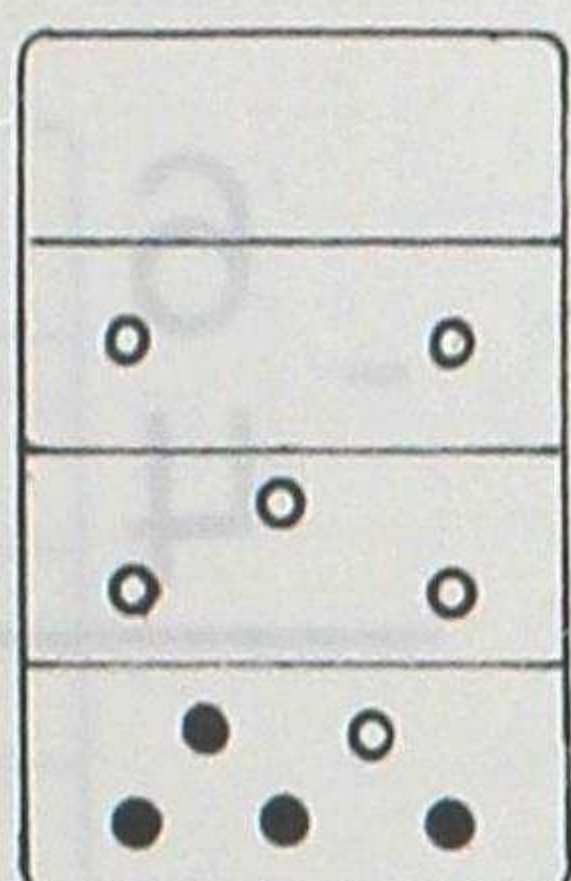
$$4 - 3 = \square$$

$$2 - 1 = \square$$

$$4 - 2 = \square$$

$$3 - 3 = \square$$





$$\begin{array}{r} 4 \\ - 1 \\ \hline \end{array}$$

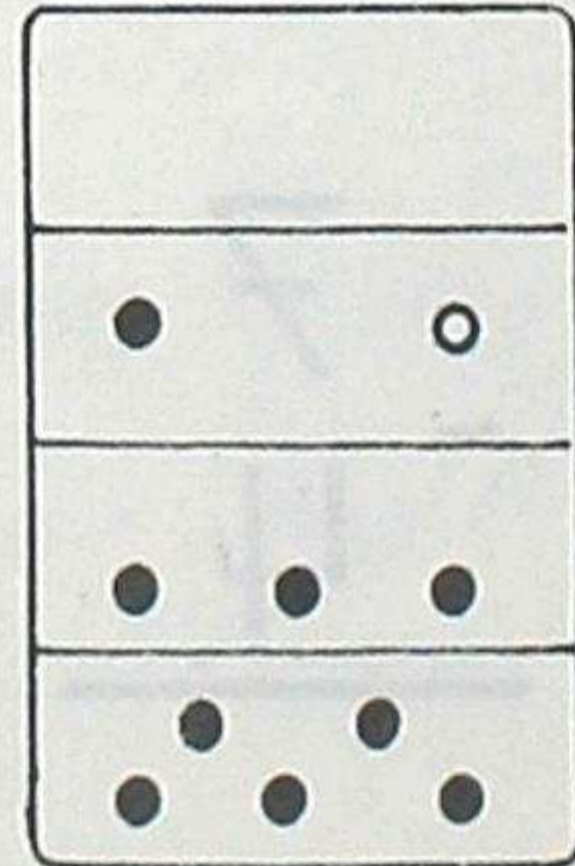
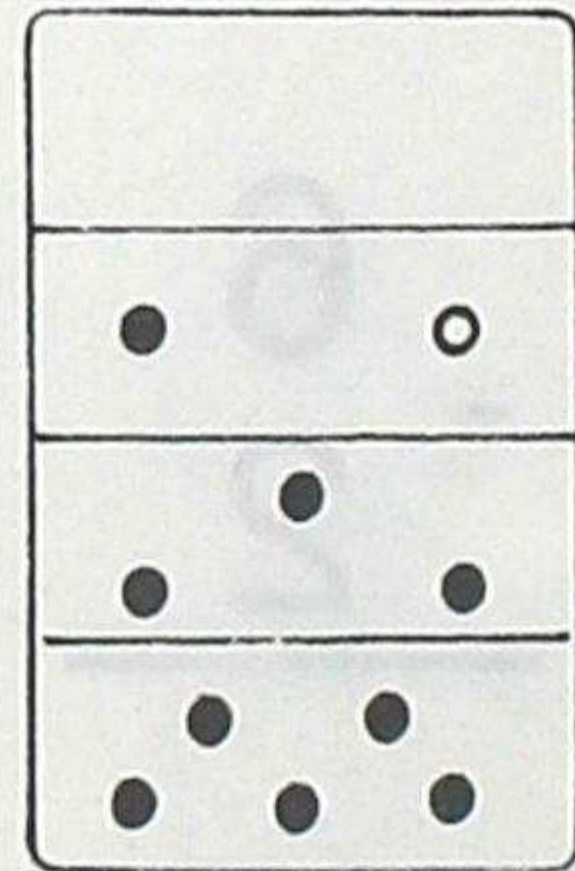
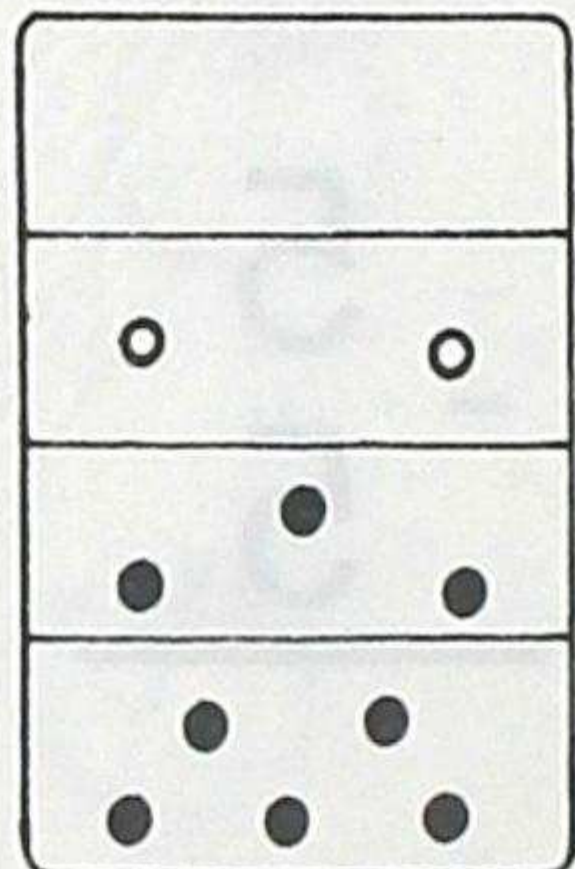
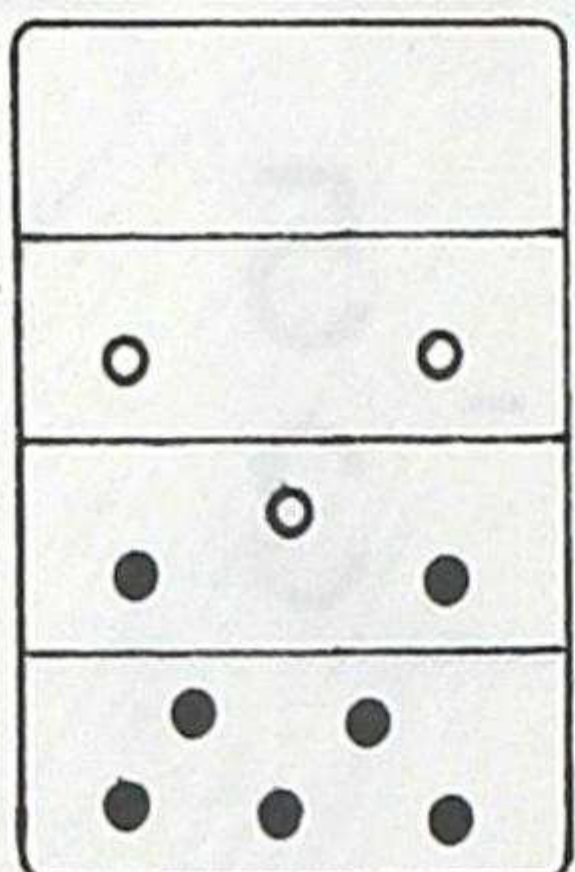
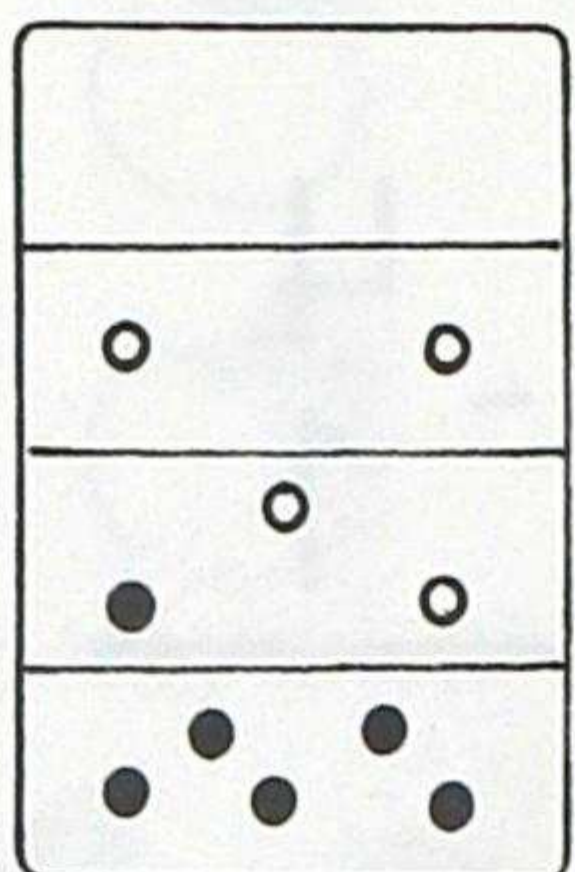
$$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$





$$\begin{array}{r} \phantom{0}6 \\ - \phantom{0}4 \\ \hline \end{array}$$

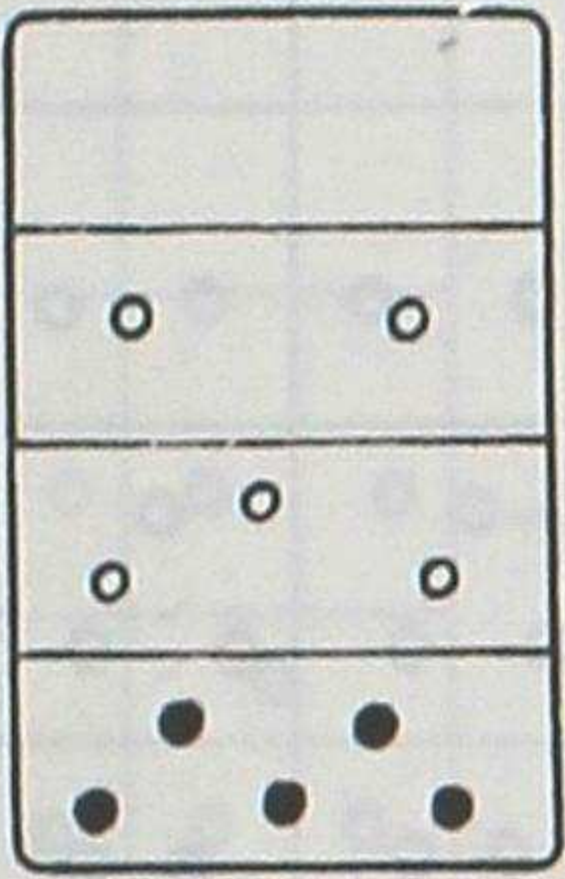
$$\begin{array}{r} \phantom{0}7 \\ - \phantom{0}2 \\ \hline \end{array}$$

$$\begin{array}{r} \phantom{0}8 \\ - \phantom{0}3 \\ \hline \end{array}$$

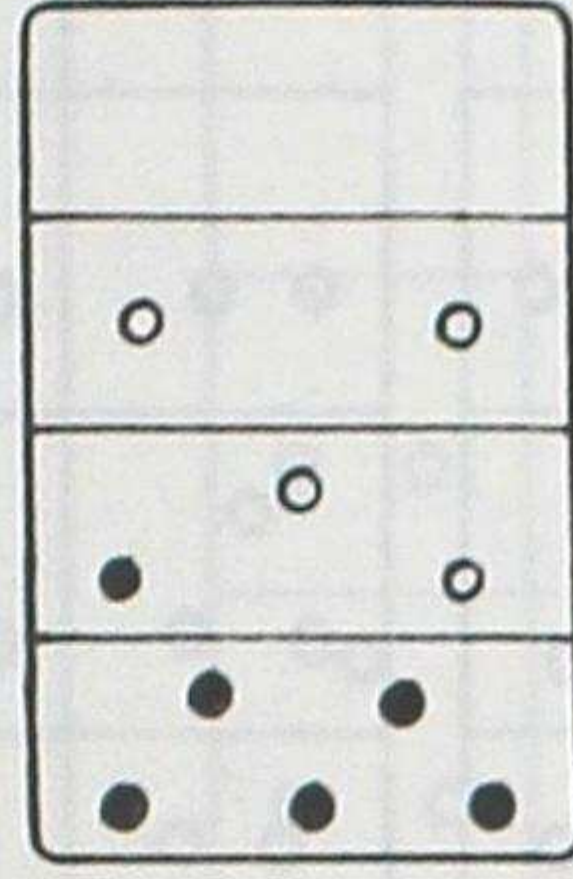
$$\begin{array}{r} \phantom{0}9 \\ - \phantom{0}6 \\ \hline \end{array}$$

$$\begin{array}{r} \phantom{0}9 \\ - \phantom{0}9 \\ \hline \end{array}$$

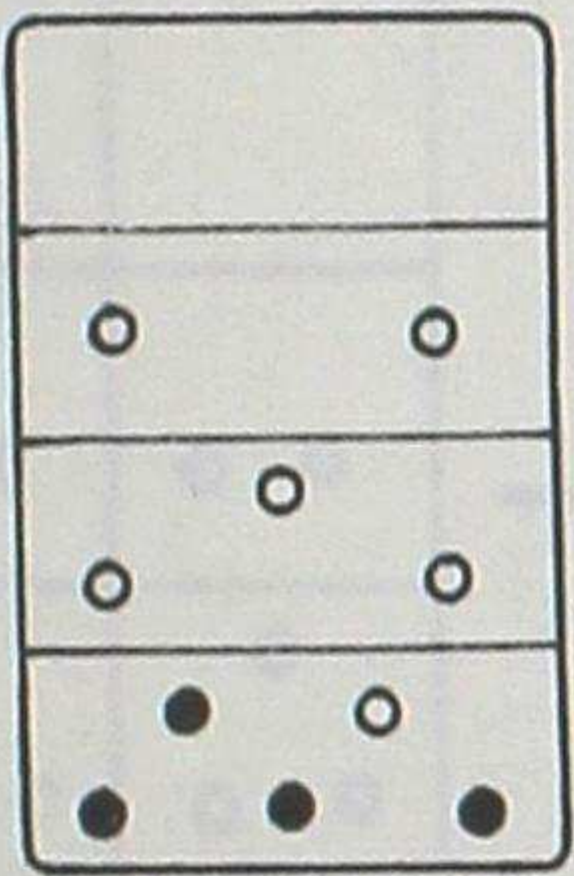




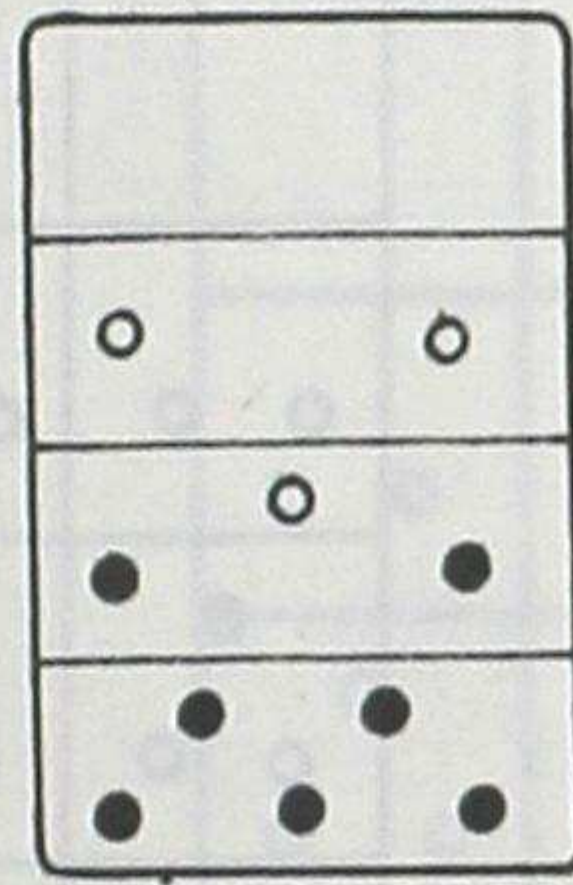
$$5 - 2 = \square$$



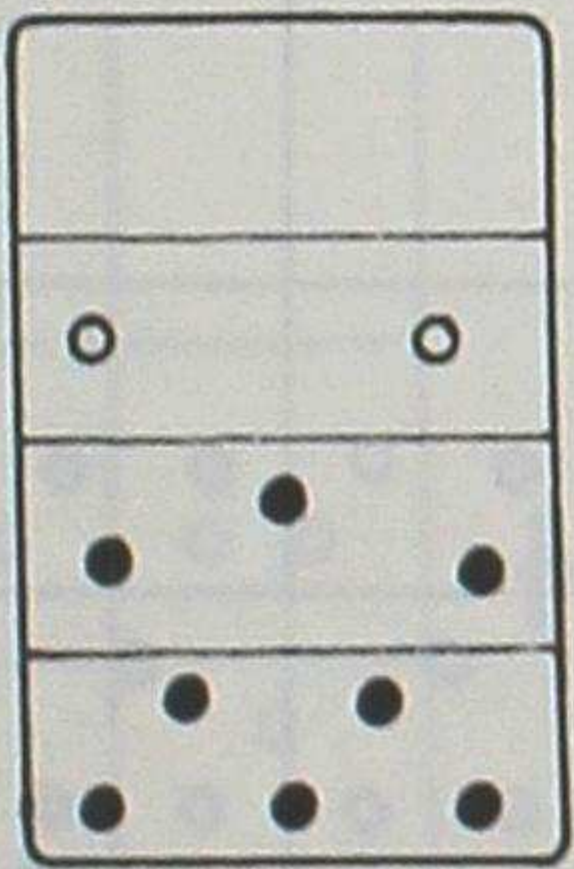
$$6 - 3 = \square$$



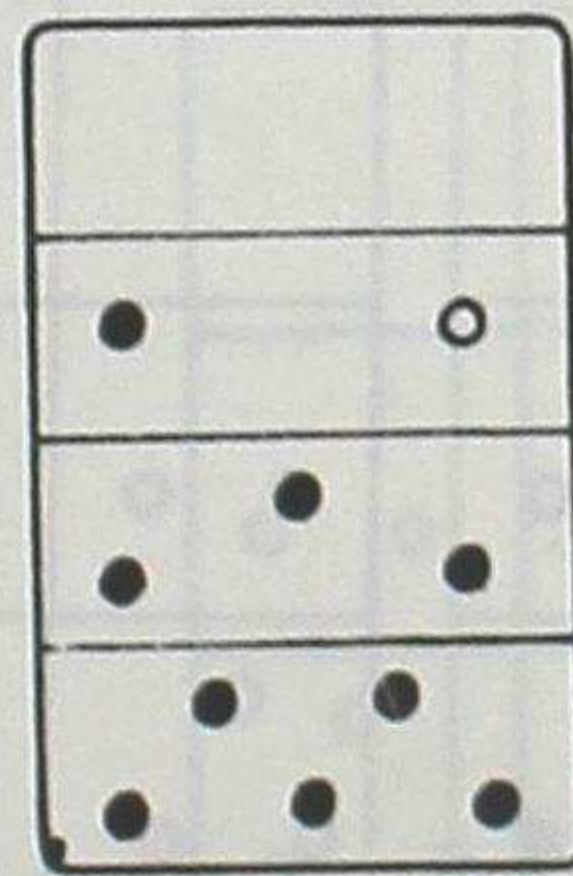
$$4 - 1 = \square$$



$$7 - 5 = \square$$

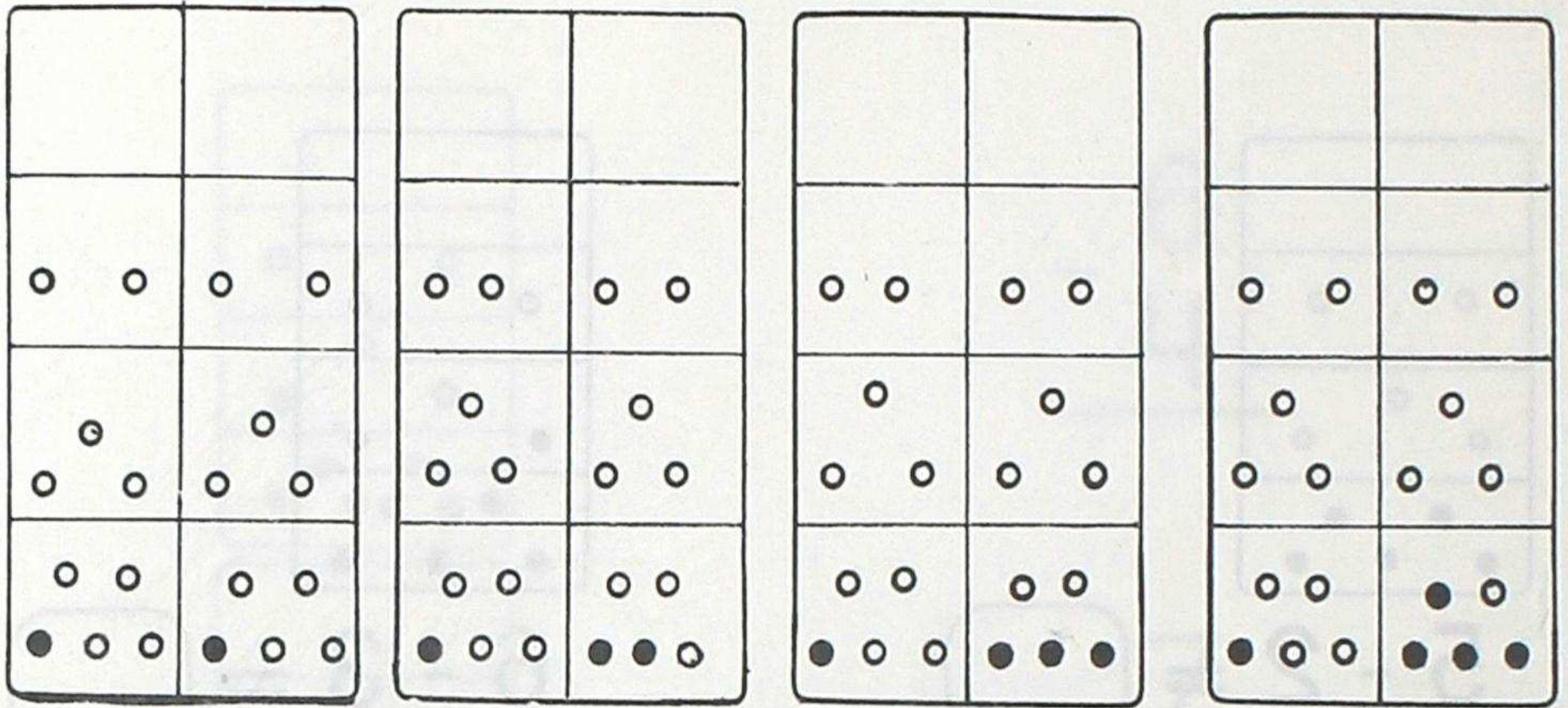


$$8 - 8 = \square$$

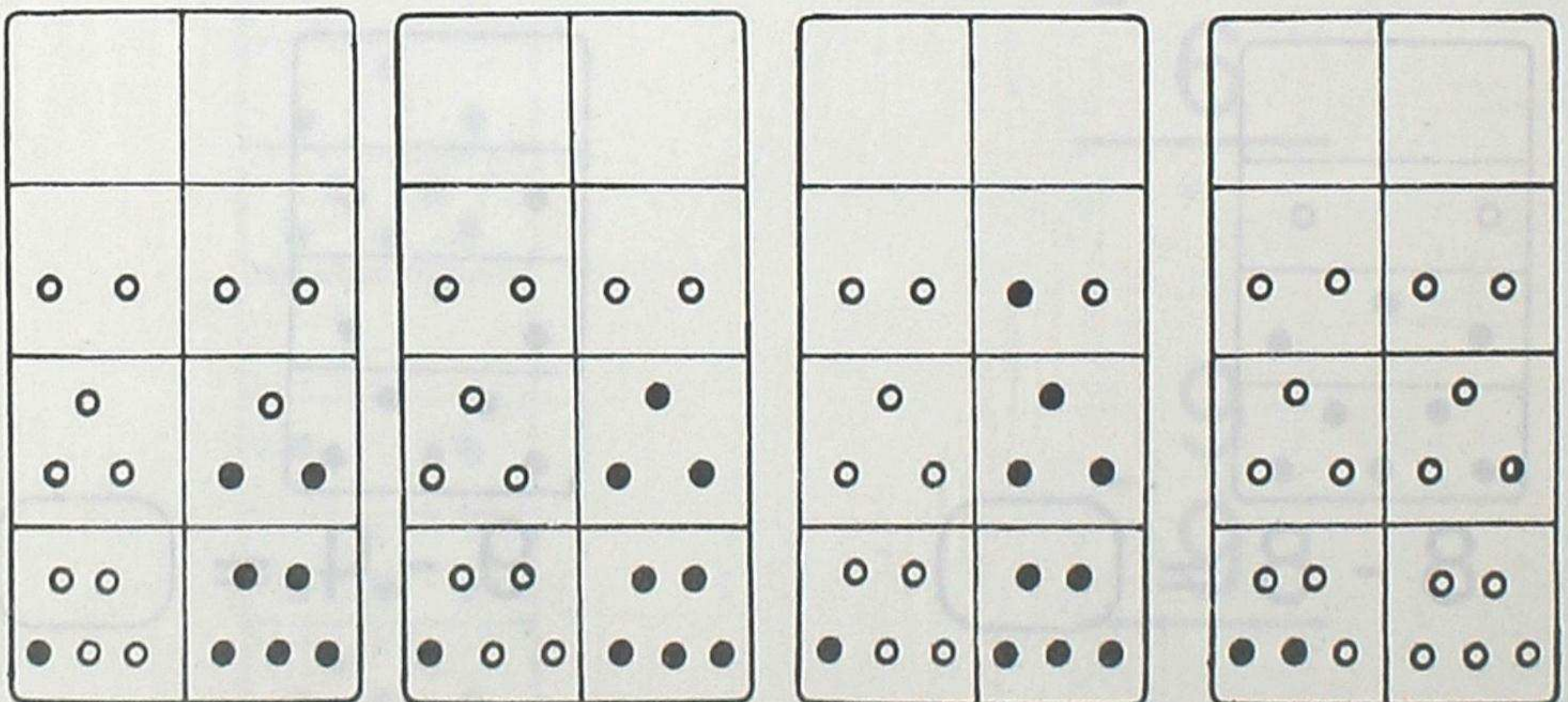
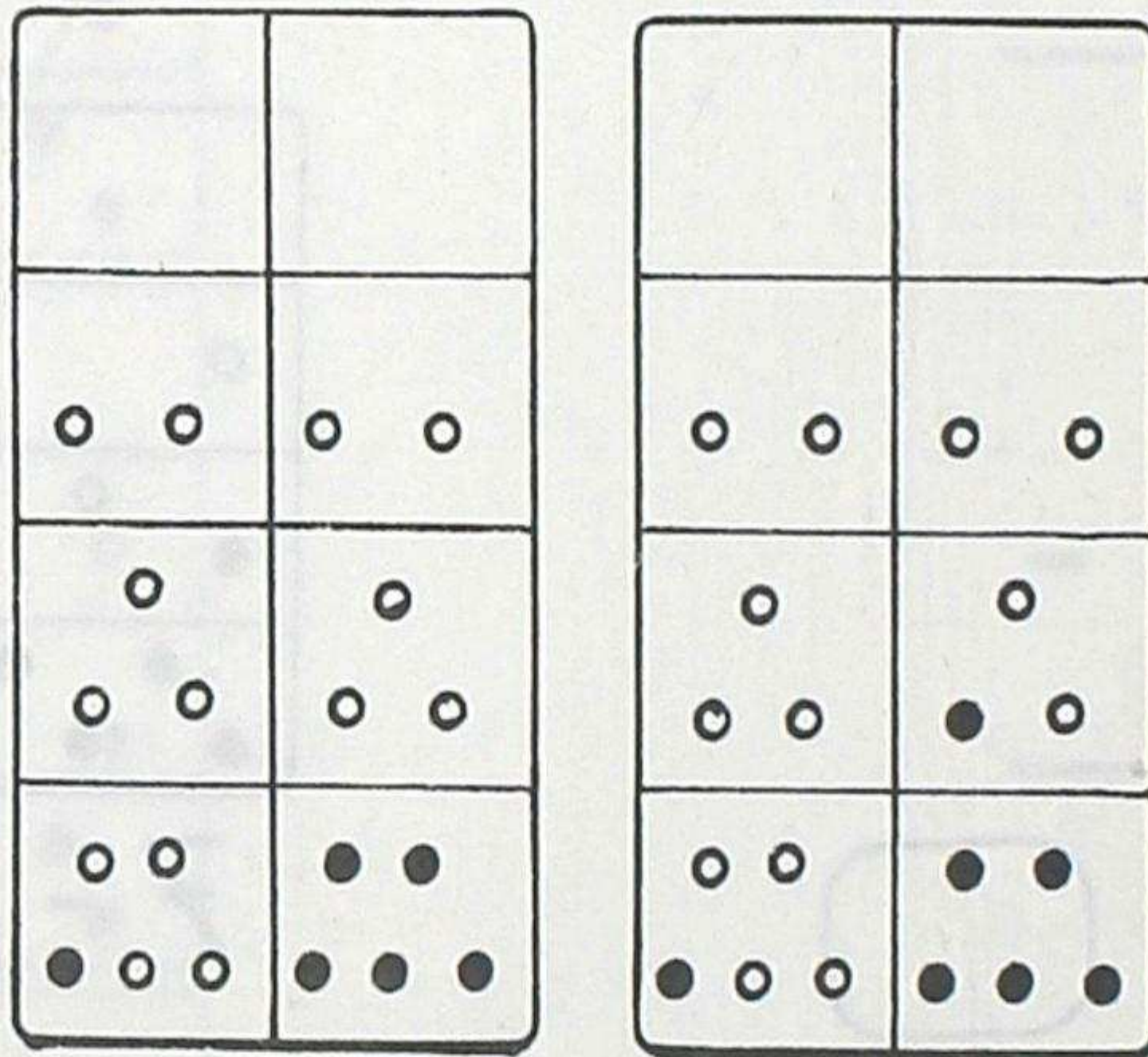


$$9 - 4 = \square$$

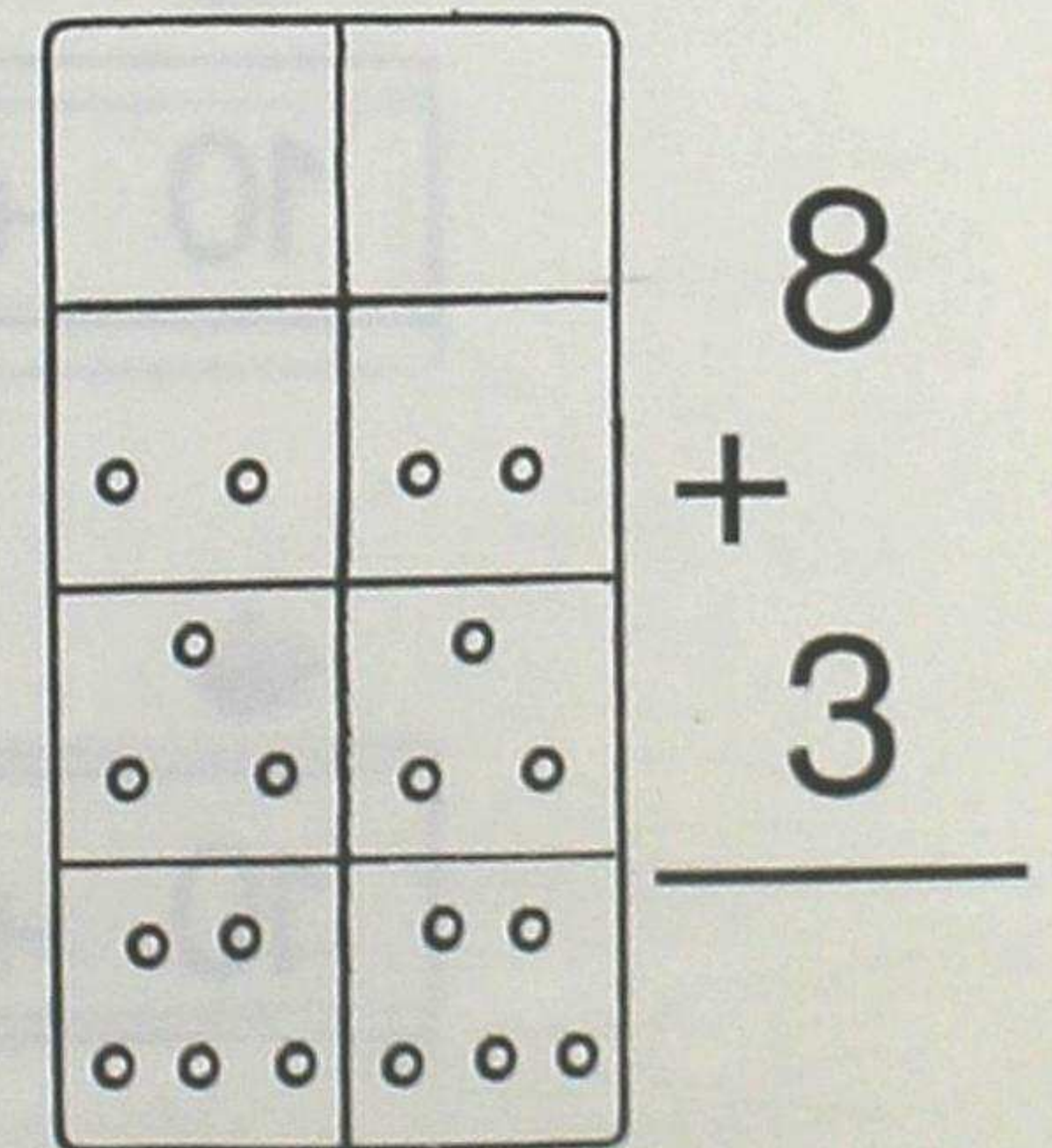
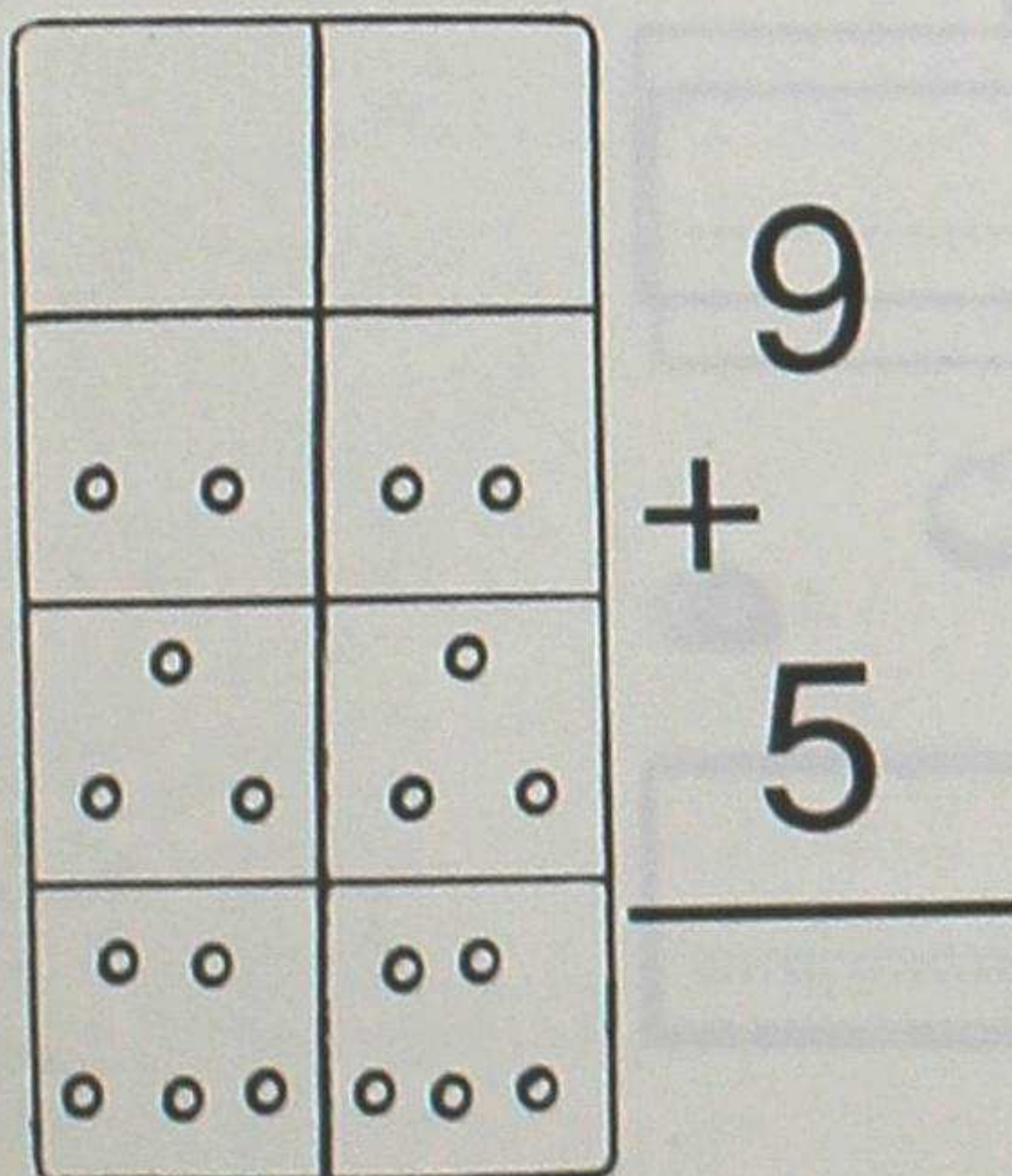
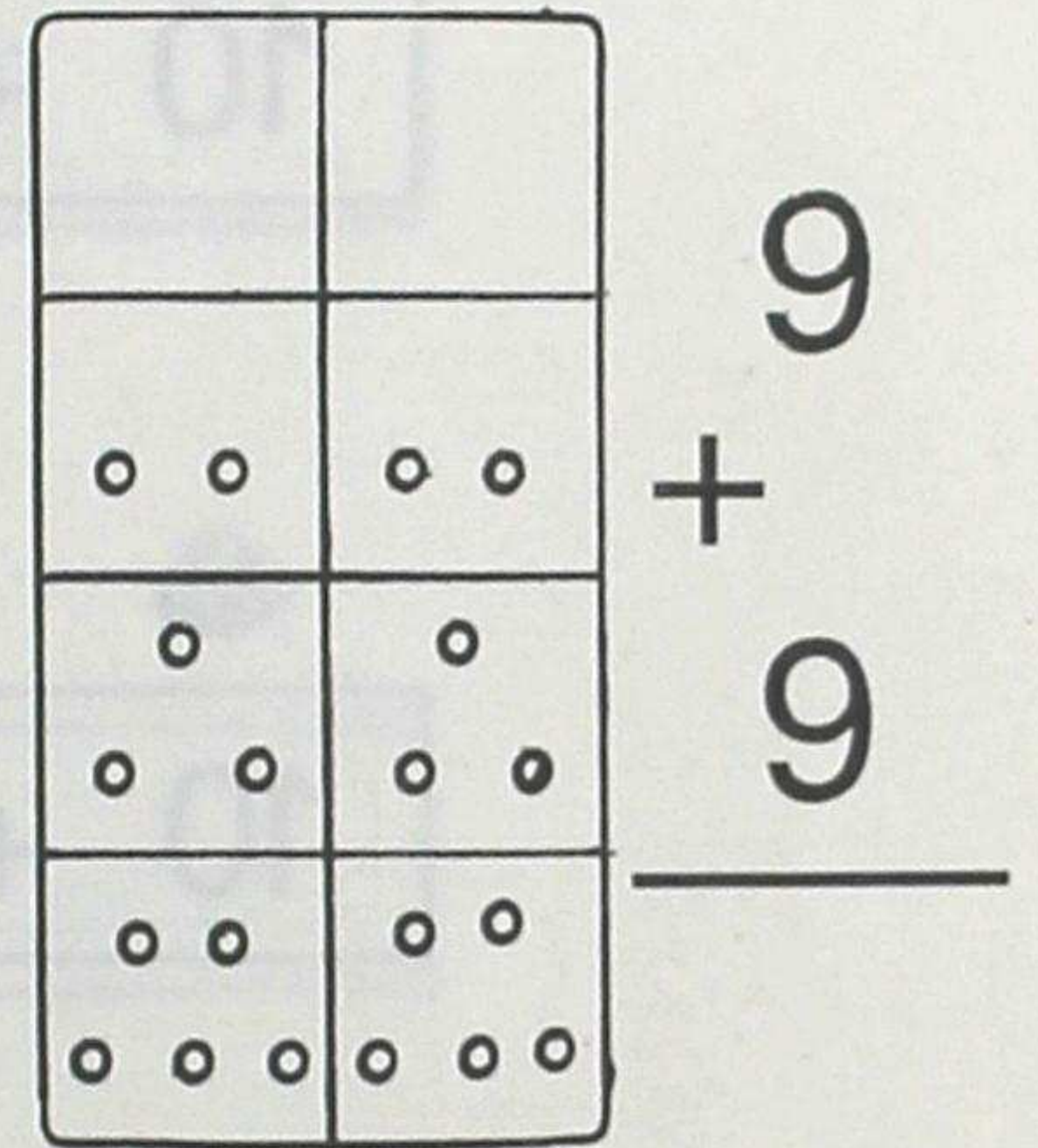
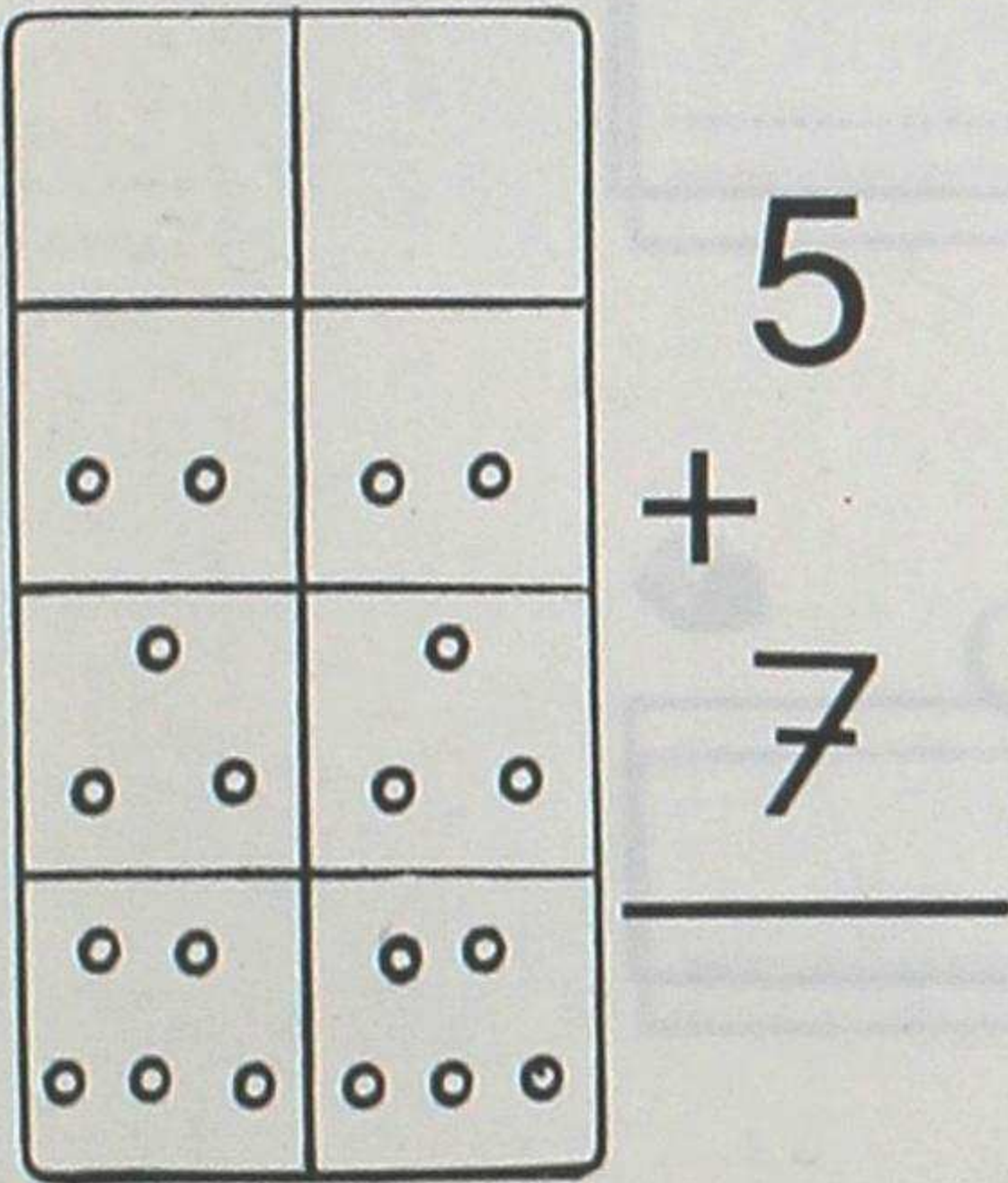
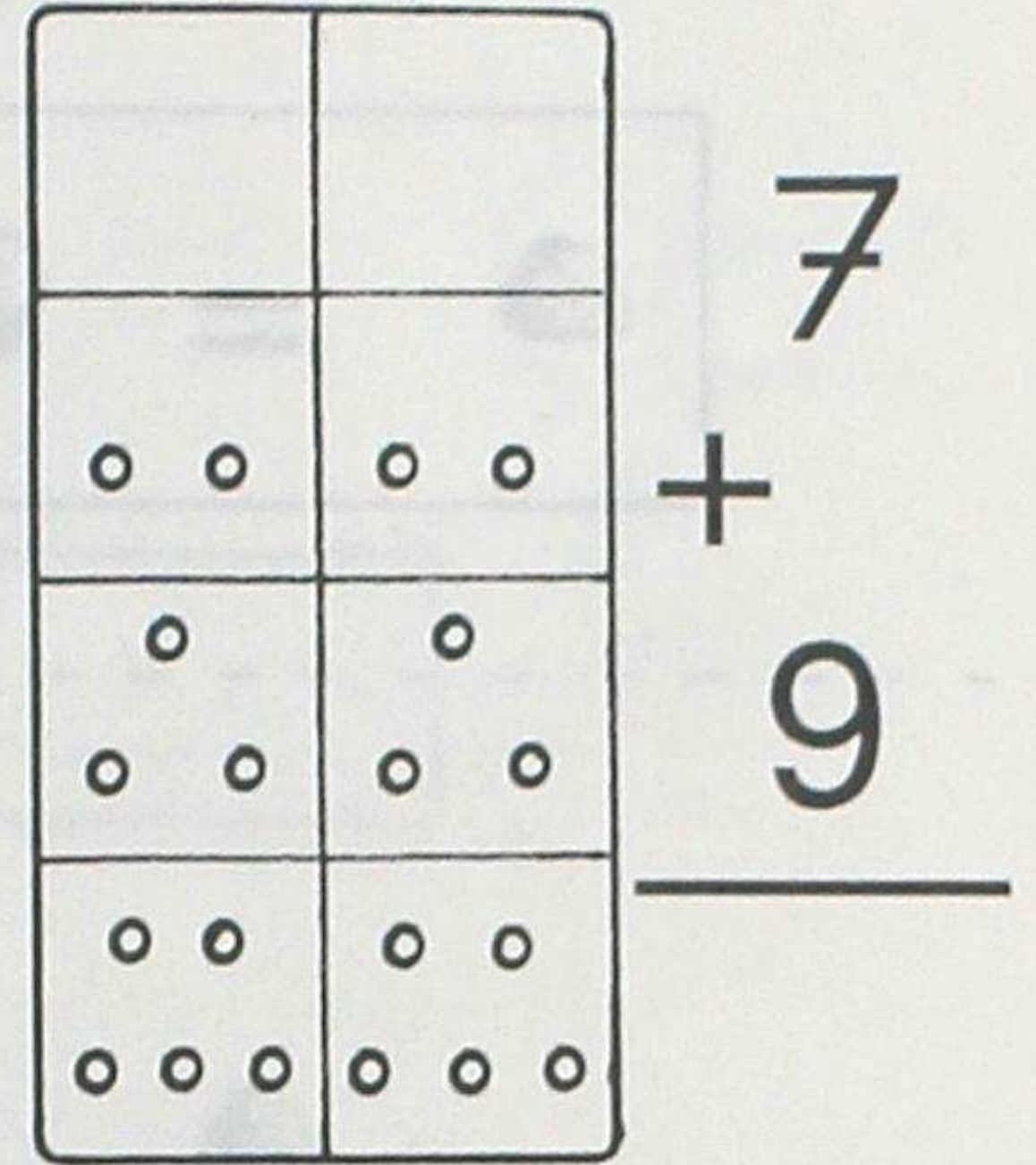
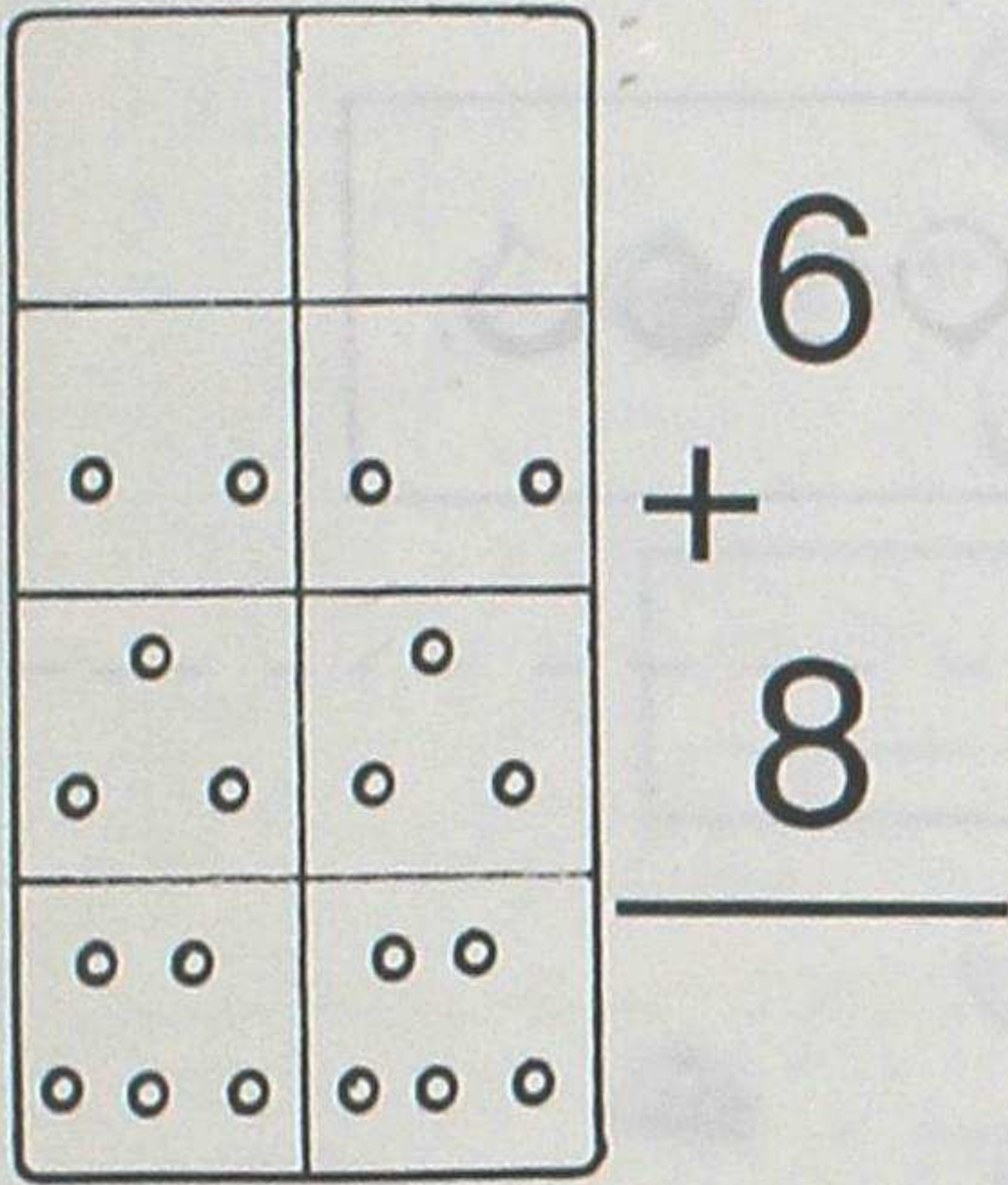




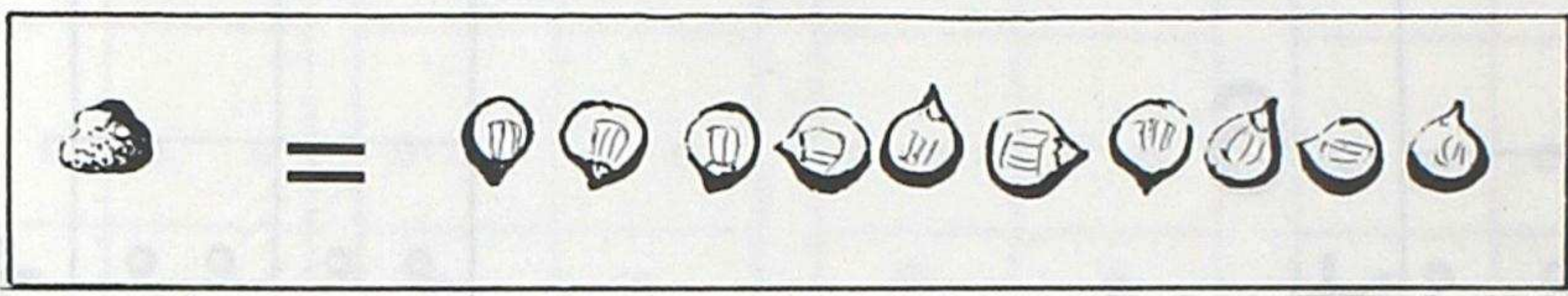
11











$$10 + 1 = \dots\dots\dots$$



$$10 + 2 = \dots\dots\dots$$

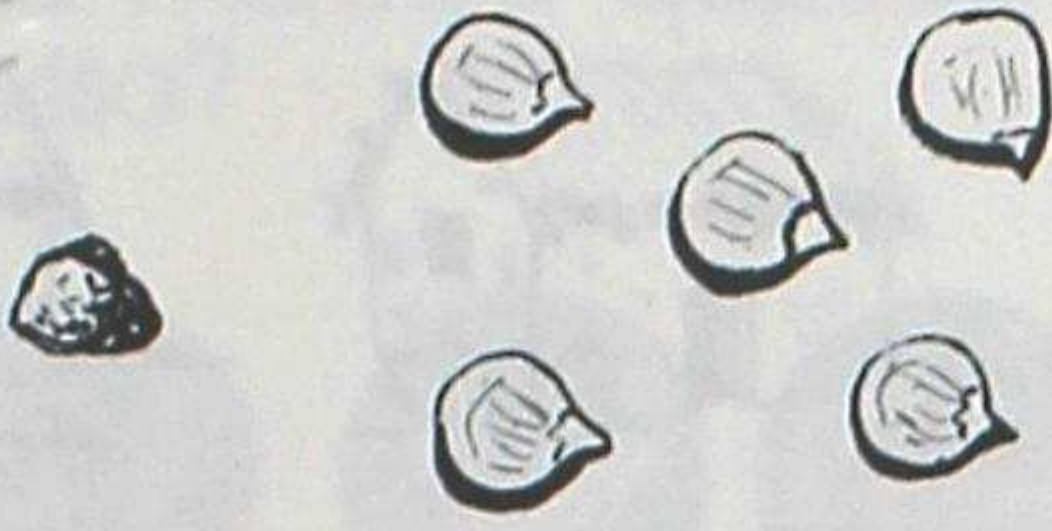


$$10 + 3 = \dots\dots\dots$$

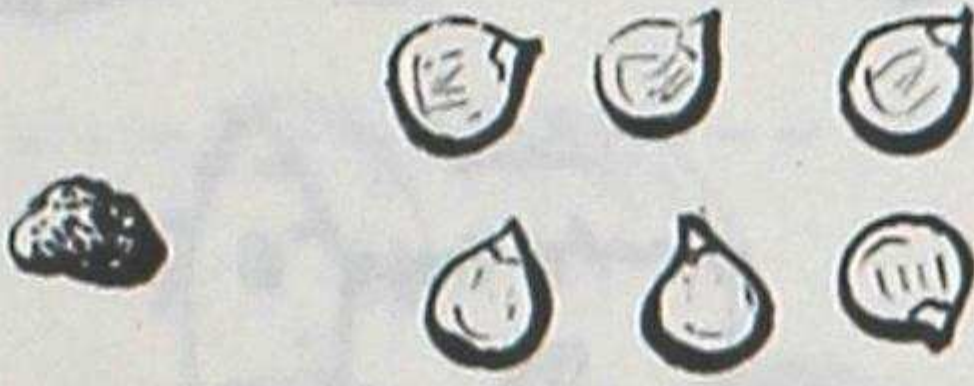


$$10 + 4 = \dots\dots\dots$$

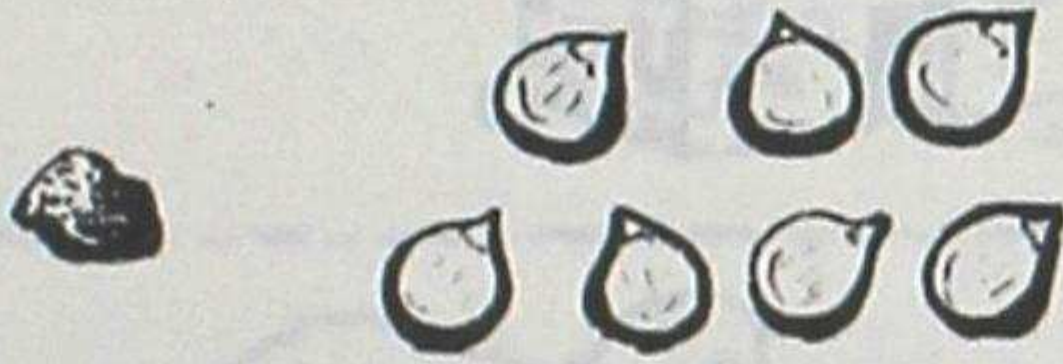




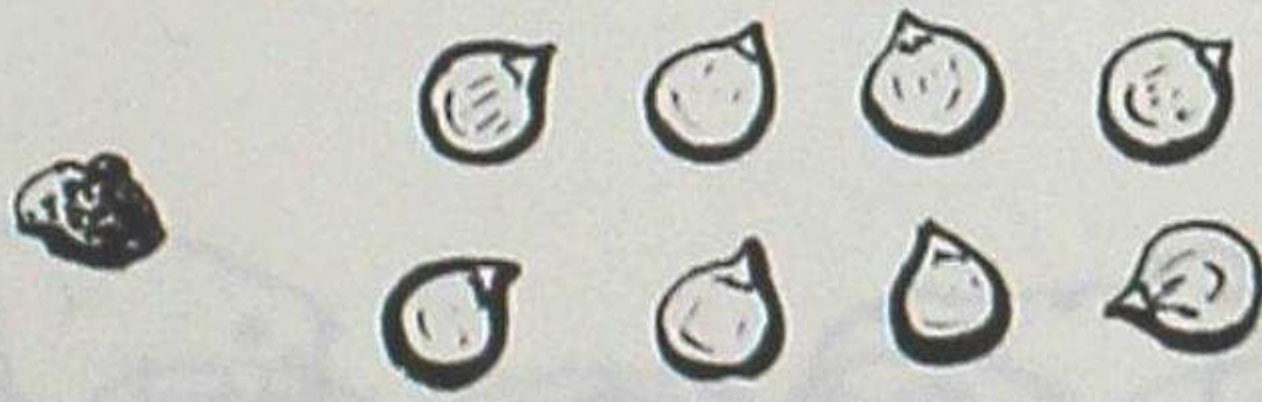
$$\dots + \dots = \dots$$



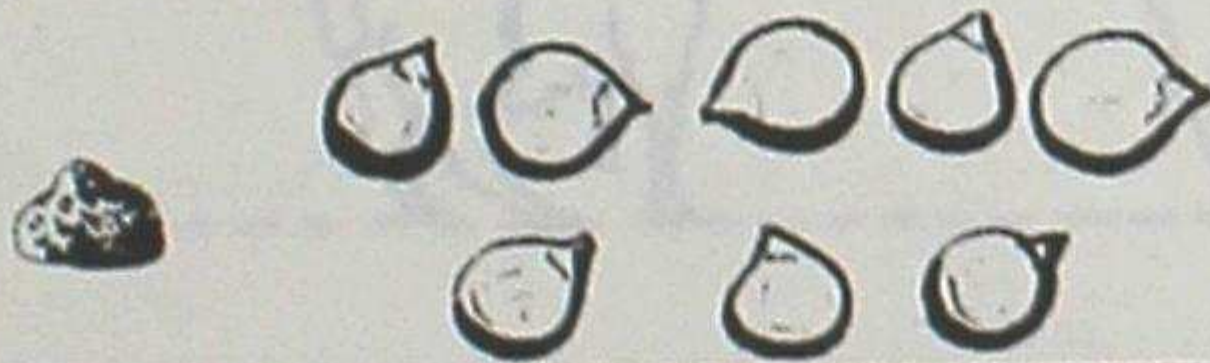
$$\dots + \dots = \dots$$



$$\dots + \dots = \dots$$

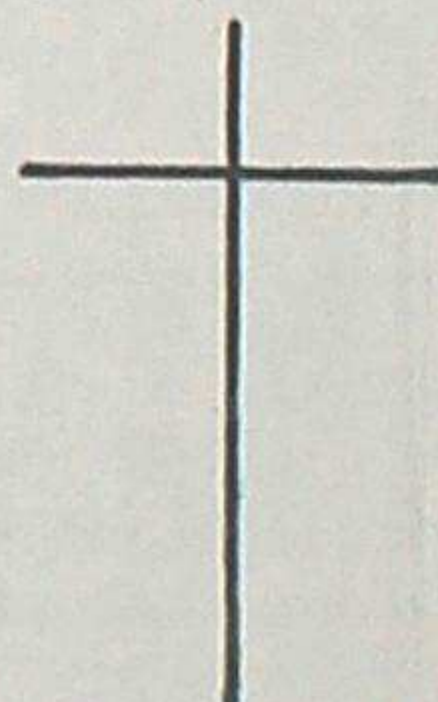
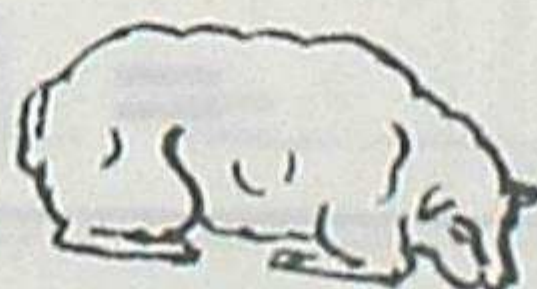
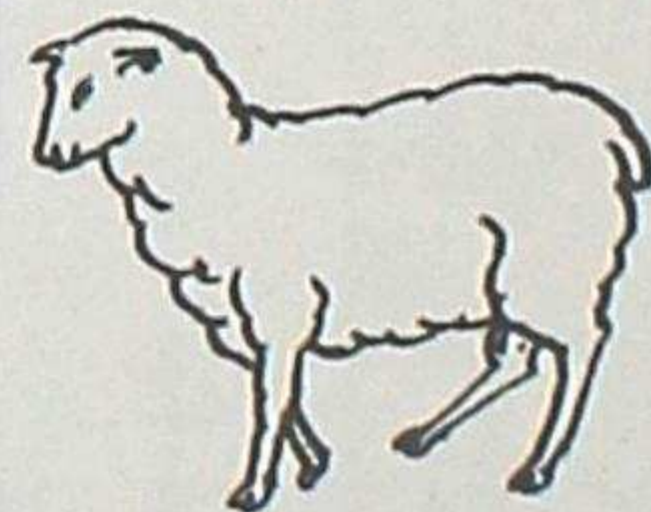
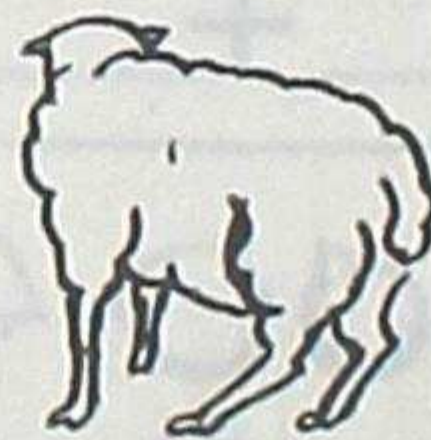
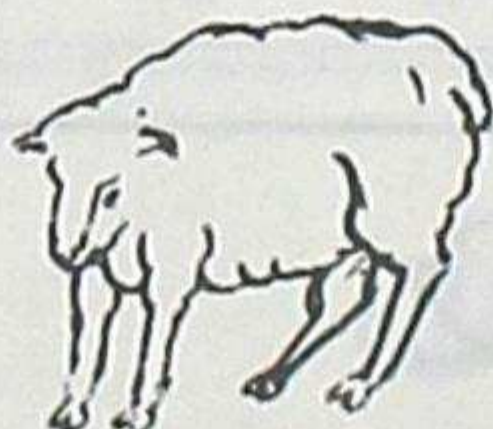
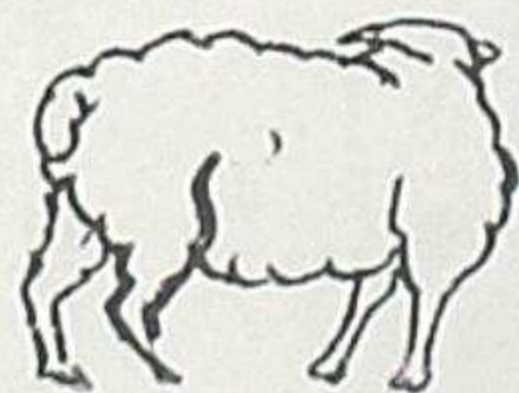
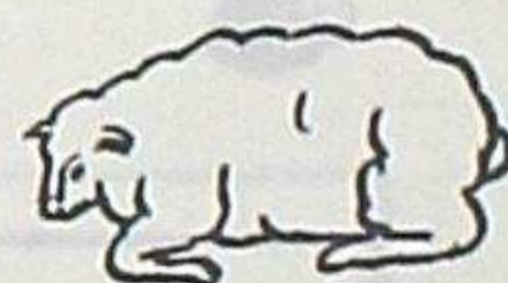
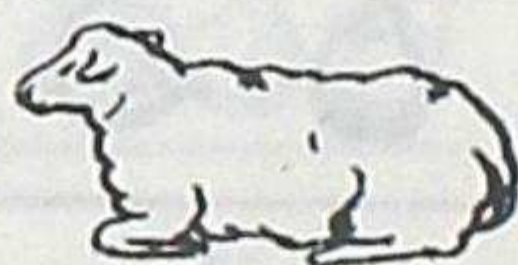
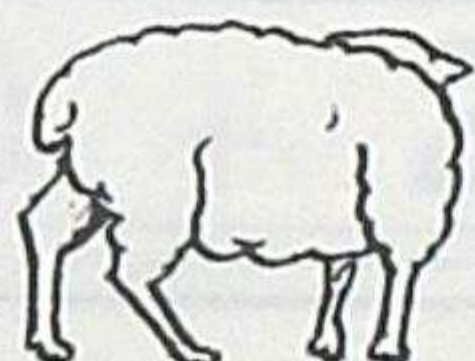
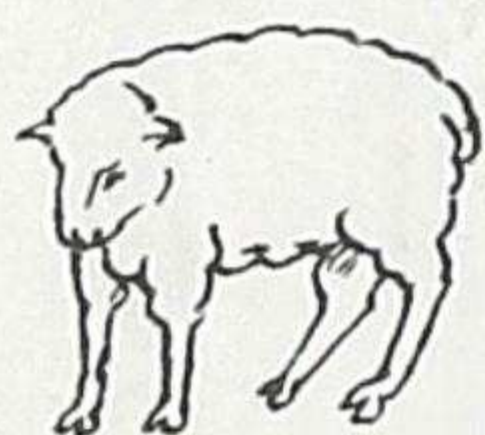
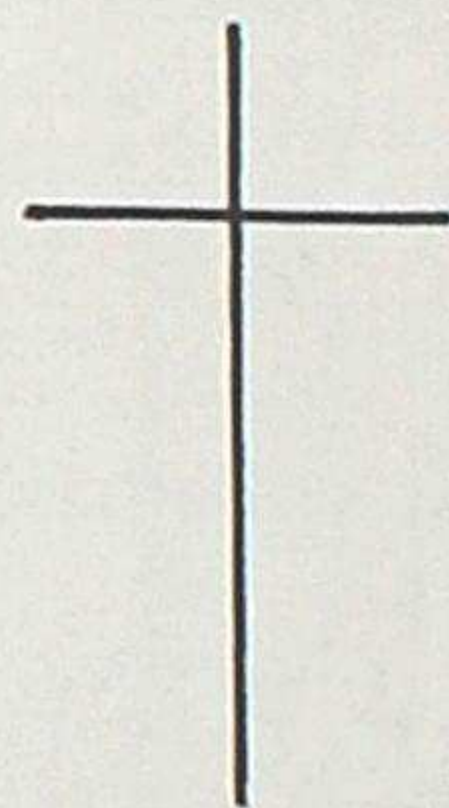
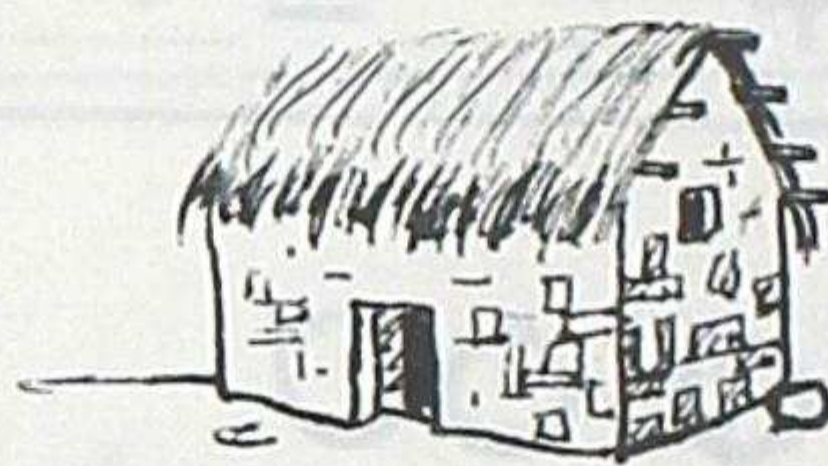
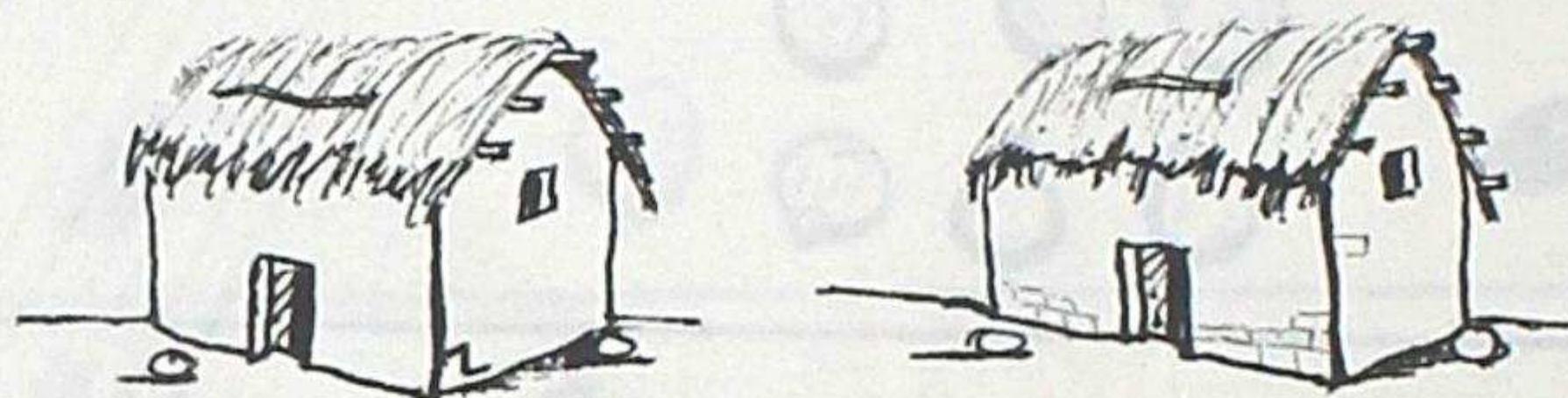
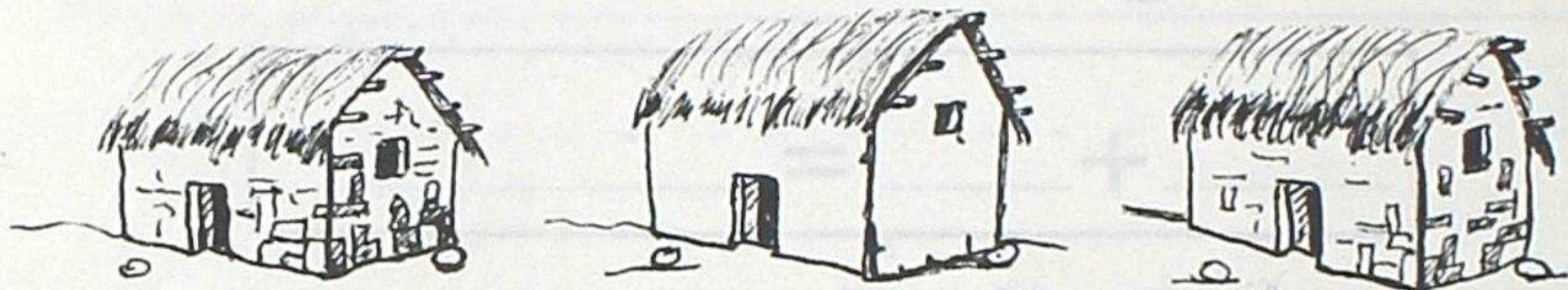


$$\dots + \dots = \dots$$



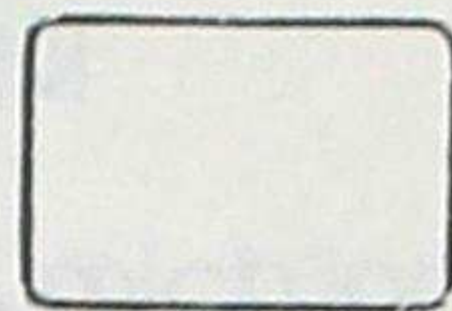
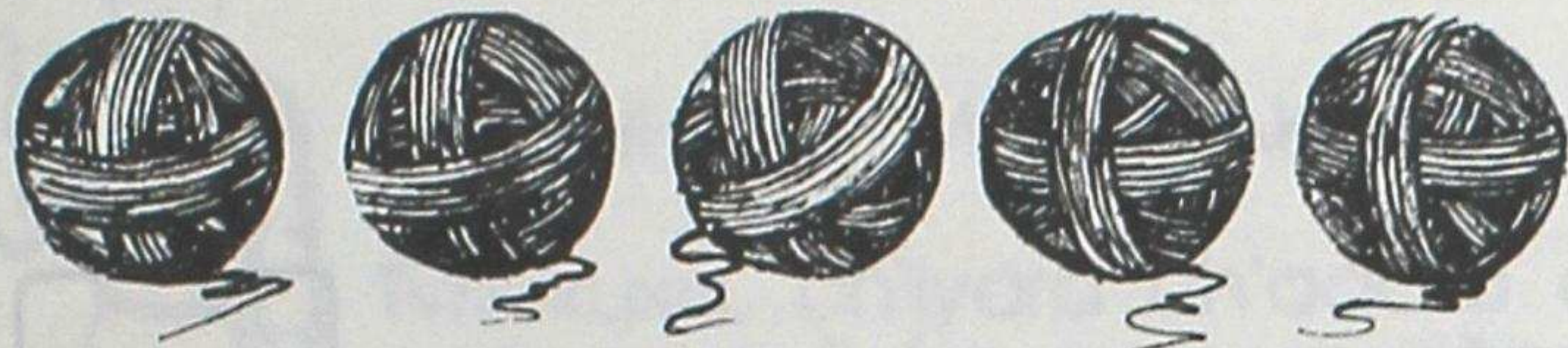
$$\dots + \dots = \dots$$



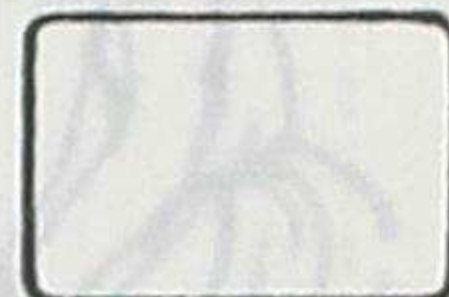
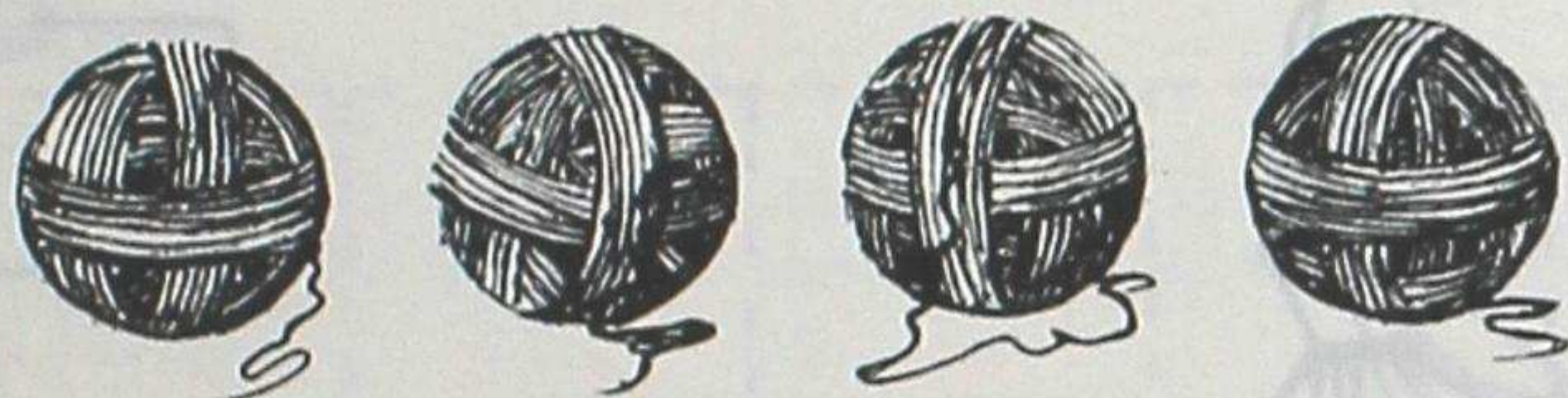




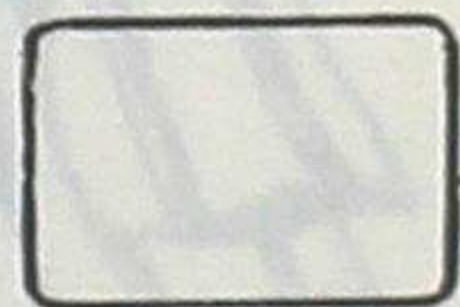
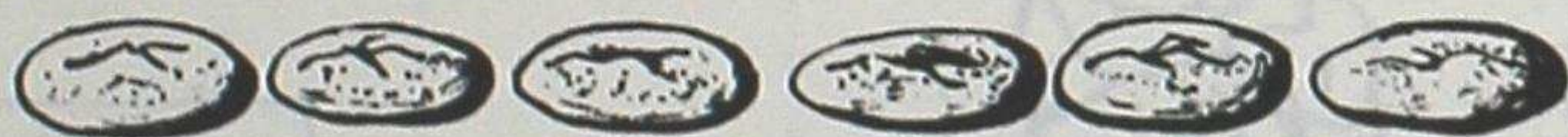
Mama Justinaxa phisqa ch'ankha muruq'u qapu, ukatxa pusi muruq'u qapxati. ¿Qawqha ch'ankha muruq' unixisa?



+



Satukuxa suxta t'ant'a ali, ukatxa phisqa t'ant'ampi aixati, ¿Mayaru apthapitaxa qawqha t'ant'anixpachasa?

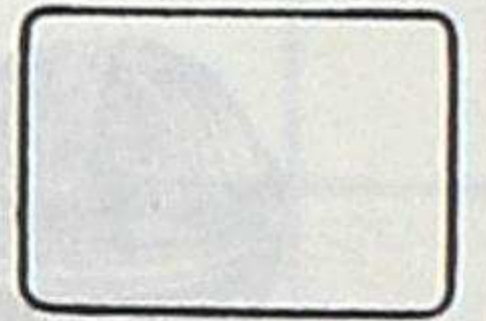
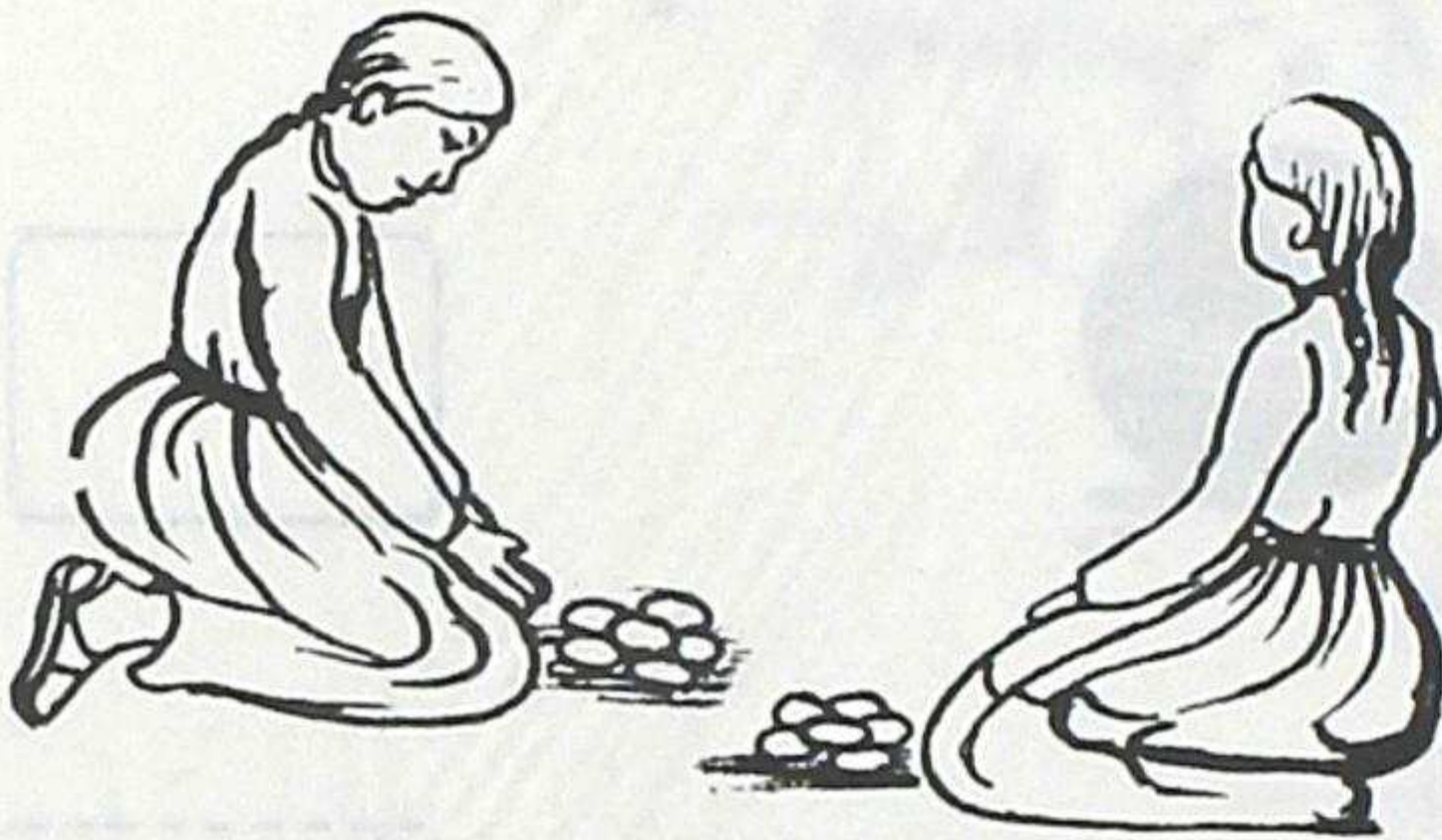
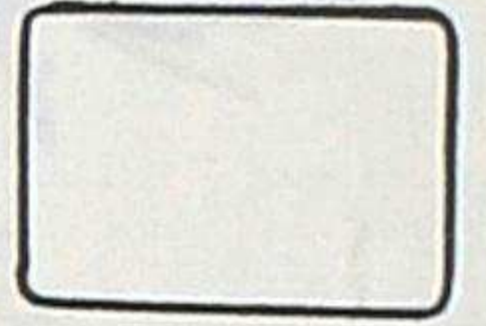


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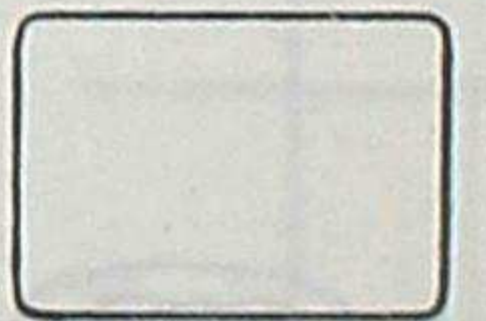
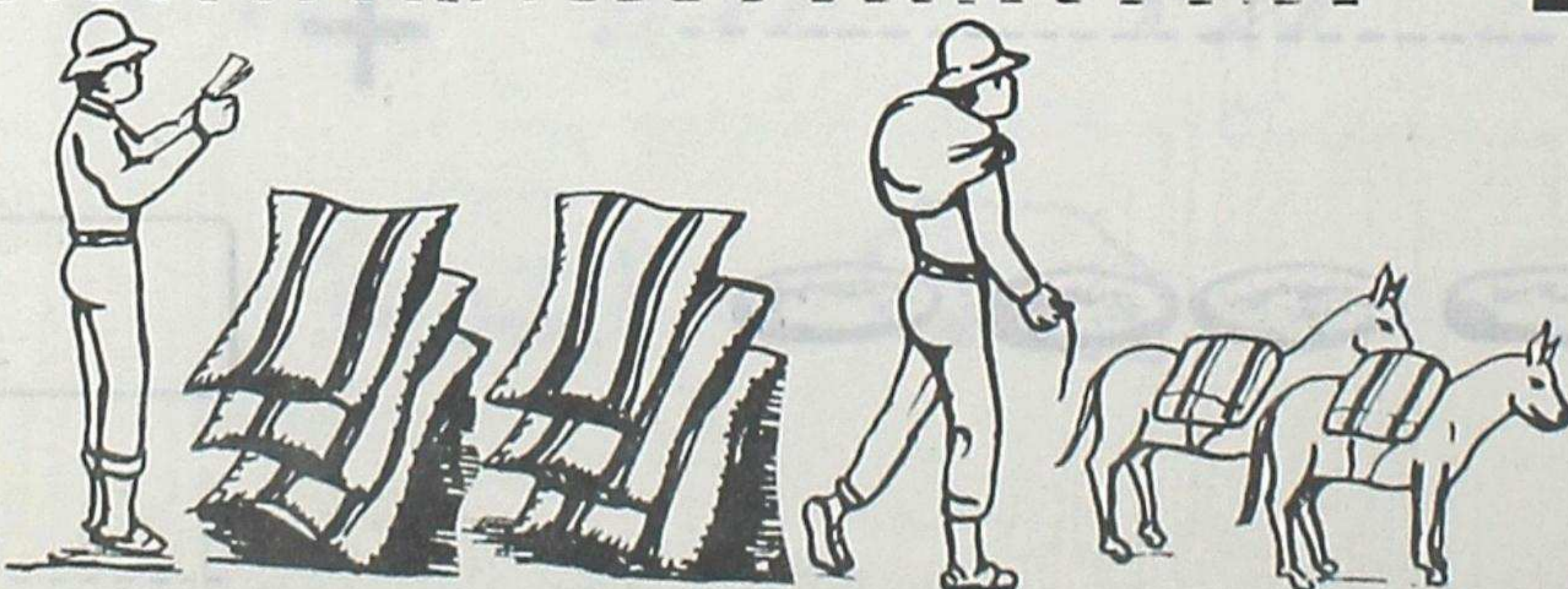
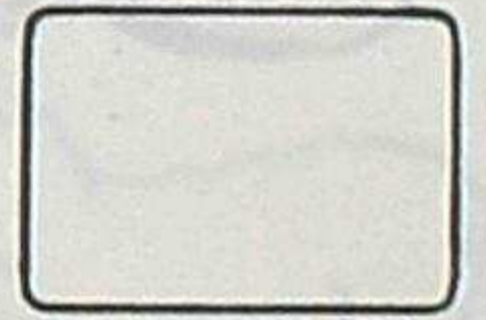
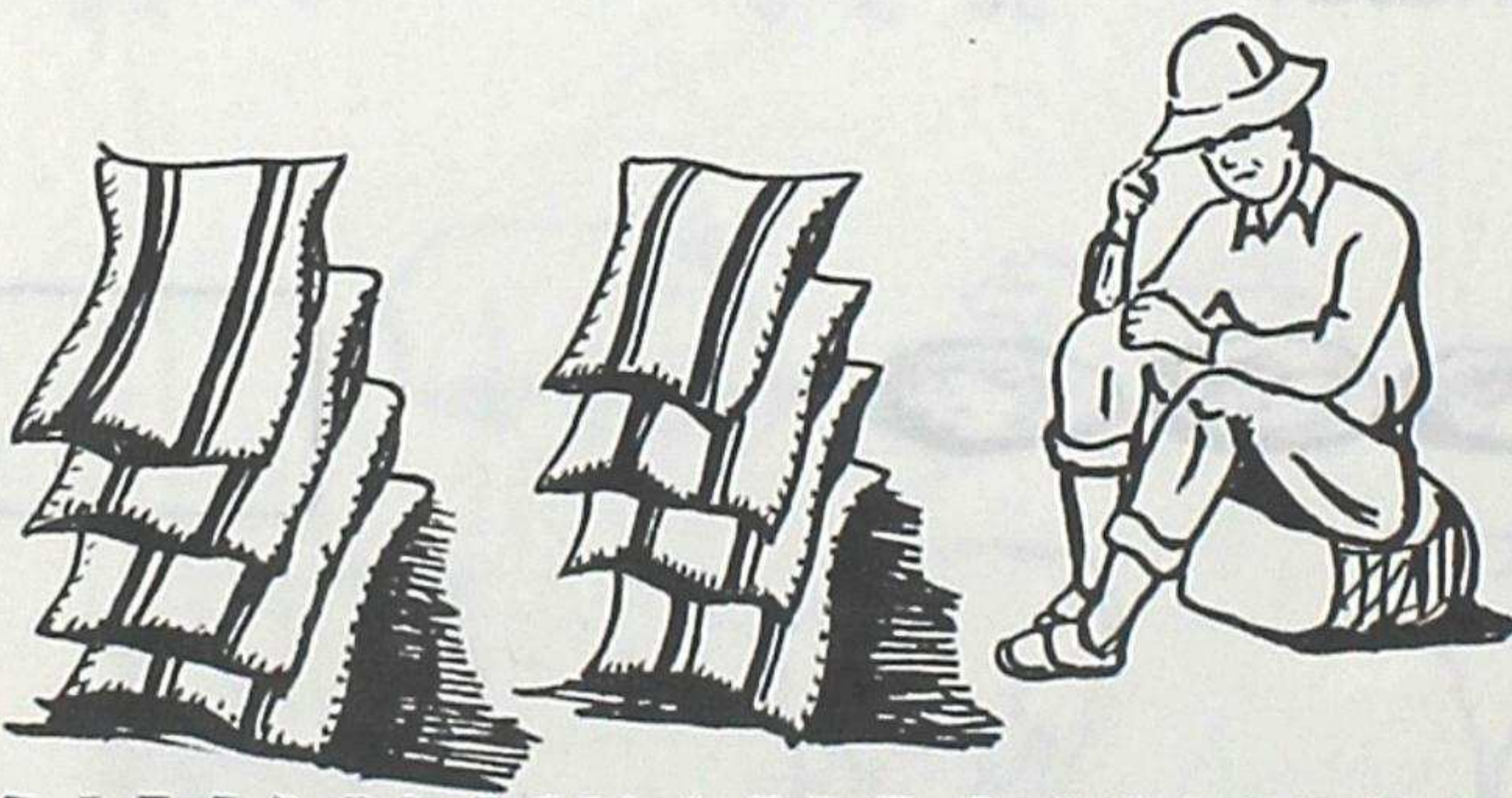




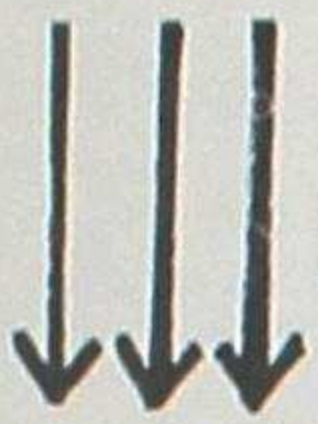
Warana mamapaxa tunka payani k'awna qhaturu api, ukatxa suxta k'awnaki aljaqi. ¿Qawqha k'awnasa jilt'pacha?



Tata Tumasixa kimsaqallqu kustala ch'uqiniwa, ukatxa pä kustala ch'uqi aljaqi. ¿Qawqha kustala ch'uqisa jilt'pacha?





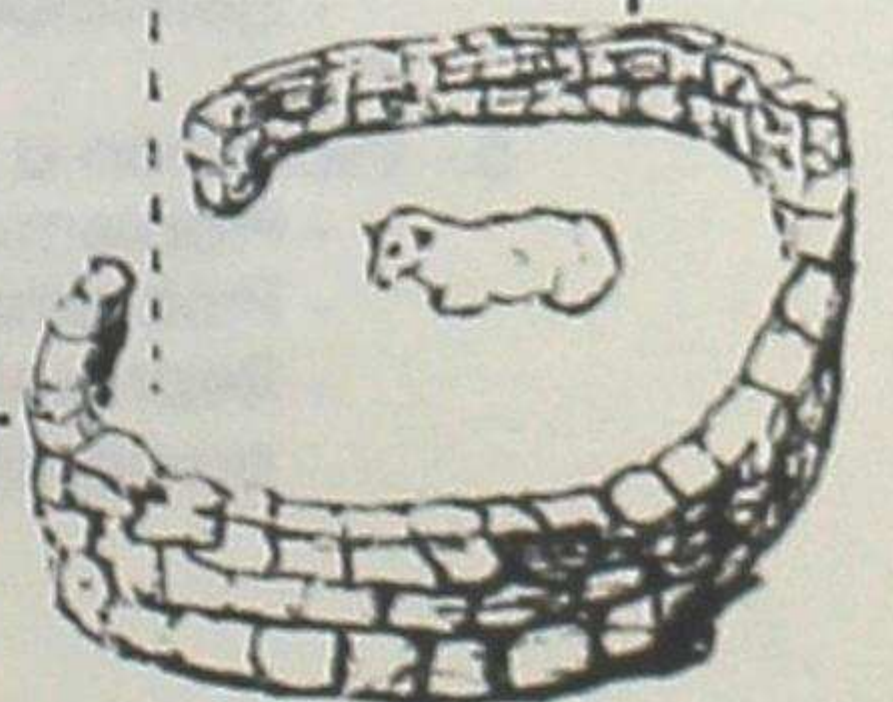
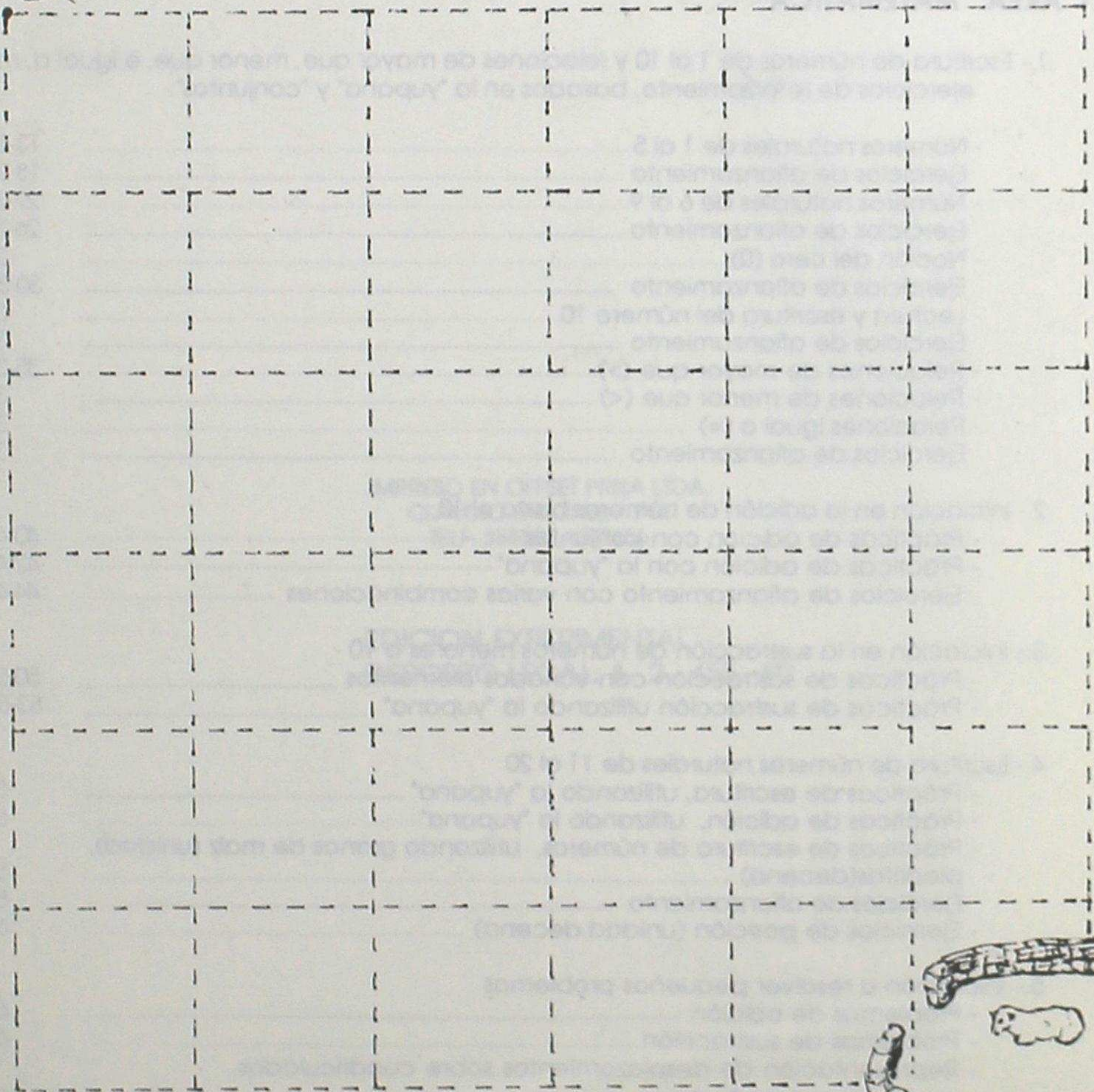


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### JICHHAXA MICH'INAKAMPI ANATAÑANI

Timukuxa, ch'iyara ch'aqata qalltasina, mich'inaka arktasawa iwisa uyuru puriñapa, yanapt'ama.





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