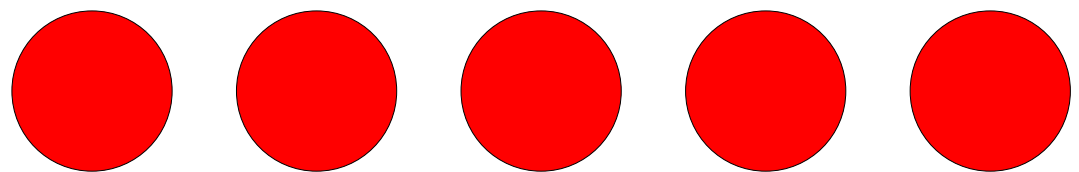
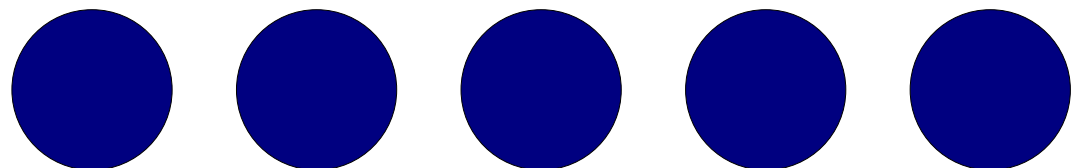
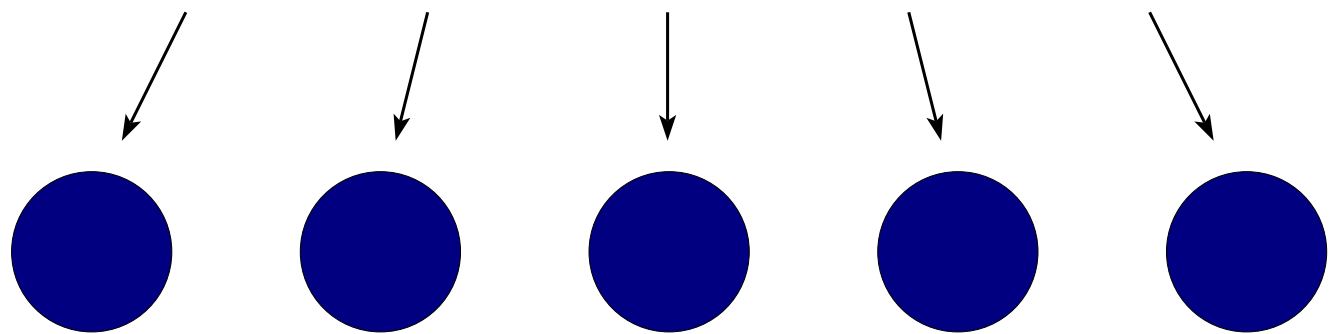
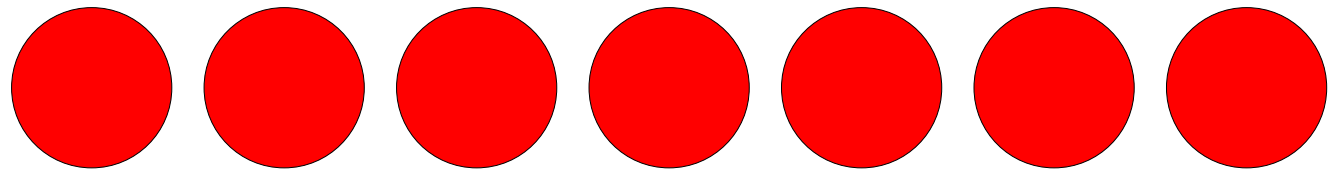
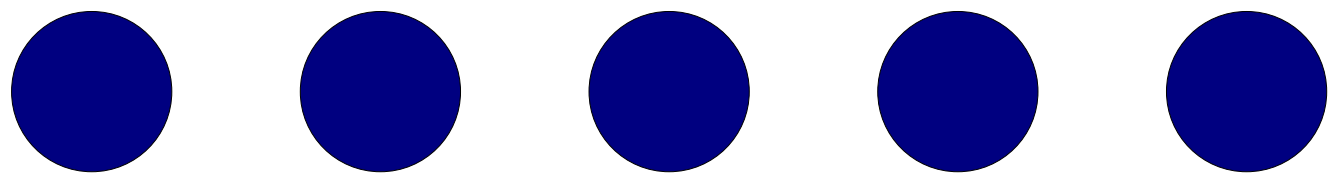


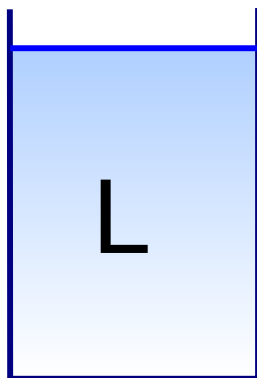
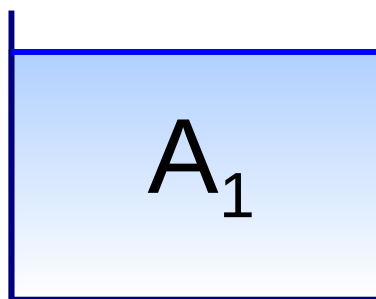
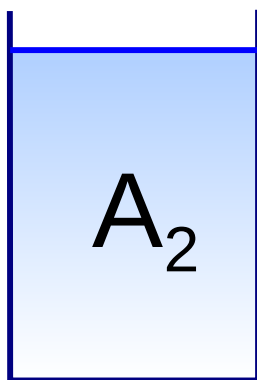
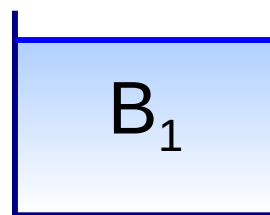
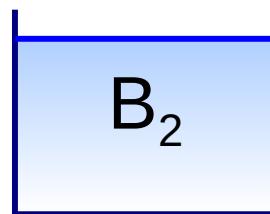
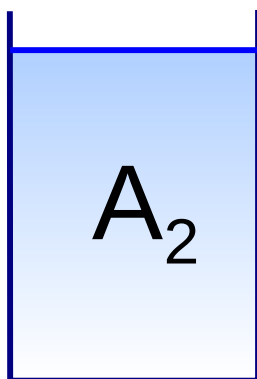
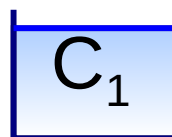
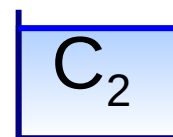
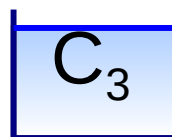
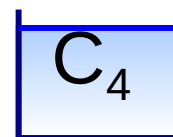
Desde que inicié la lectura de sus libros, allá por el año 1977, Piaget me cautivo de un modo inexplicable. El se convirtió en mi “maestro explicativo” a partir de entonces y, a pesar de mi posición crítica a algunos aspectos de su obra, siempre le he sido fiel a pesar de mi “constructivismo orgánico” que recogía las aportaciones posteriores de otros autores.

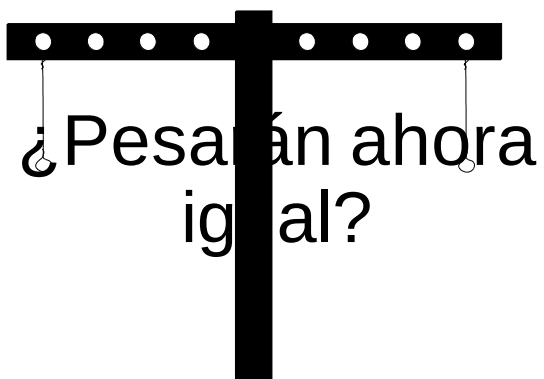
No obstante siempre le reproche que no ilustrara con gráficos, aun teniendo grandes presupuestos, sus montajes y experiencias para analizar las respuestas cognitivas del sujeto. Lo mucho que hubiera ganado en comprensión sus libros siempre tan farragosos.

Pues bien, desde el principio hice dibujos de lo que el describía en texto para intentar entenderlo mejor.

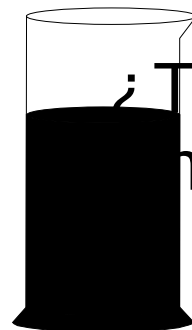
Aquí muestro muchos de estos dibujos, algunos de los cuales versioné con asistencia de programas informáticos y otros son de experiencias propias o de otros autores



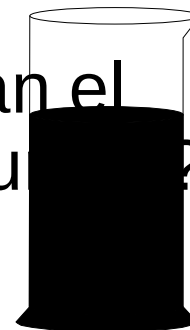




¿Pesarán ahora
igual?



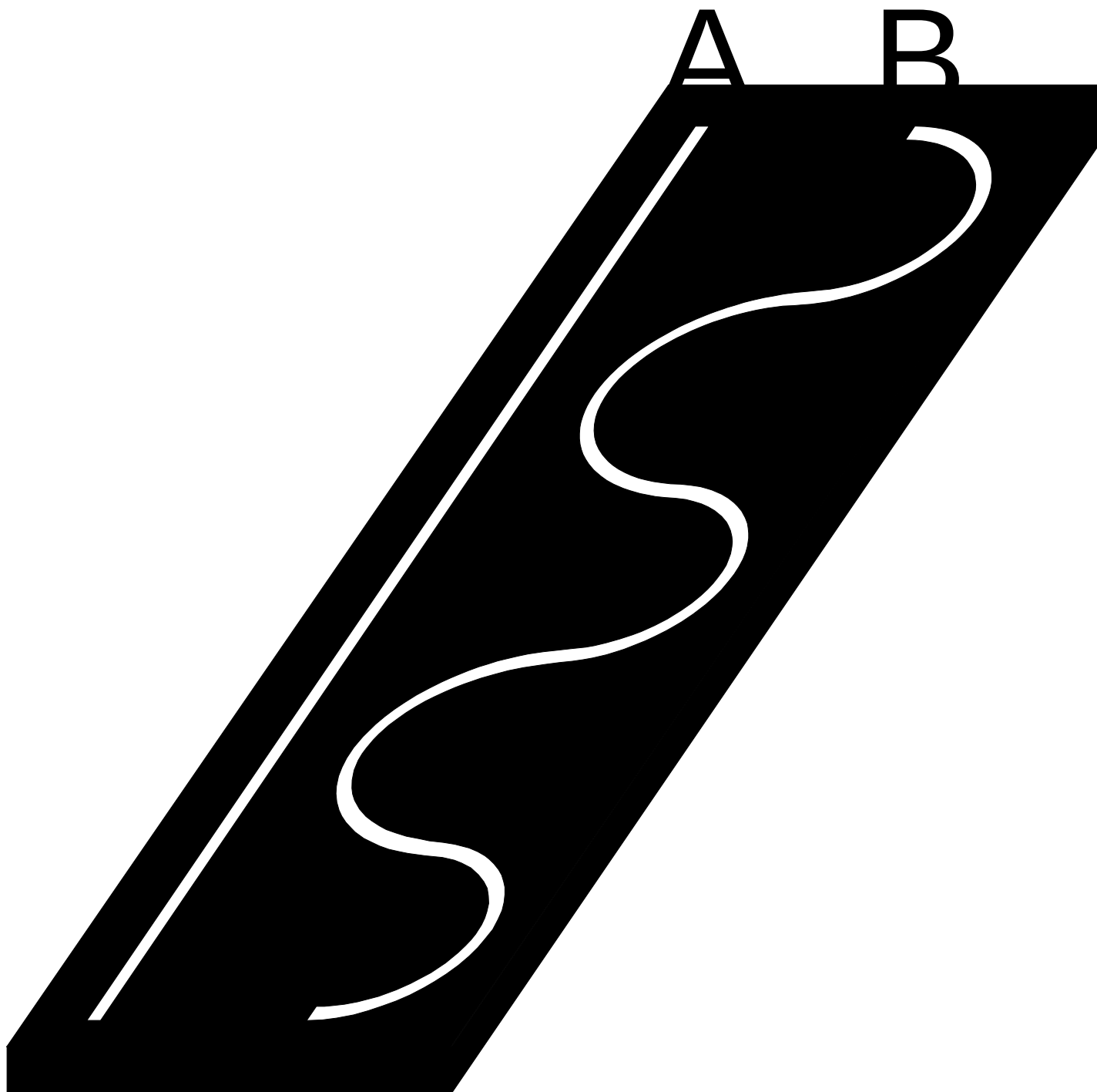
¿Tendrán el
mismo volumen?

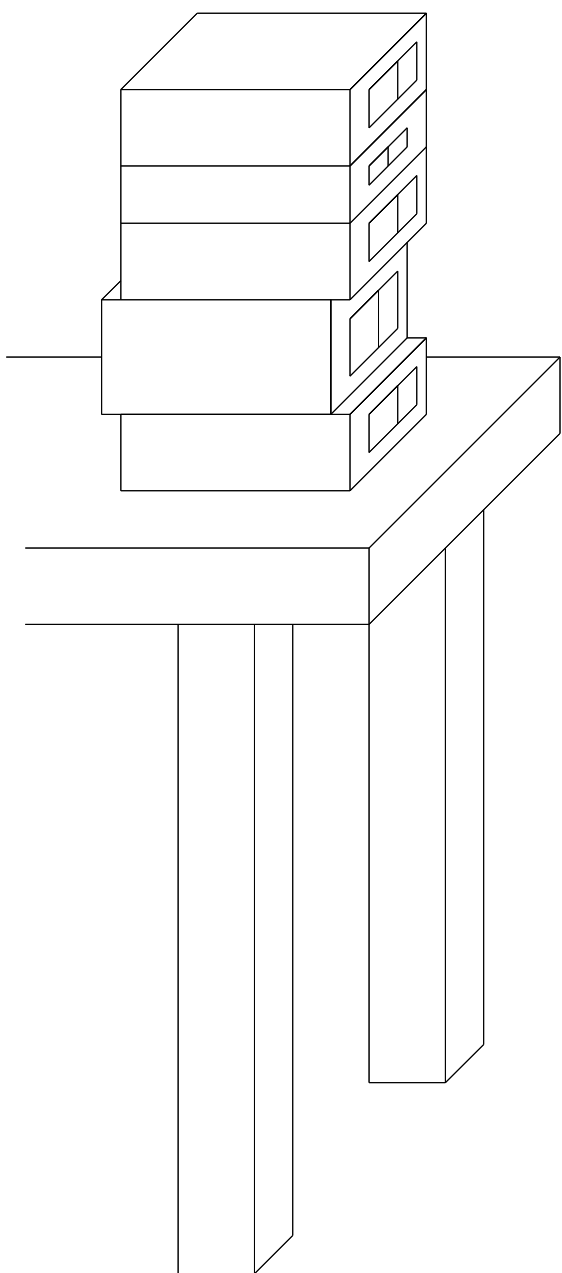
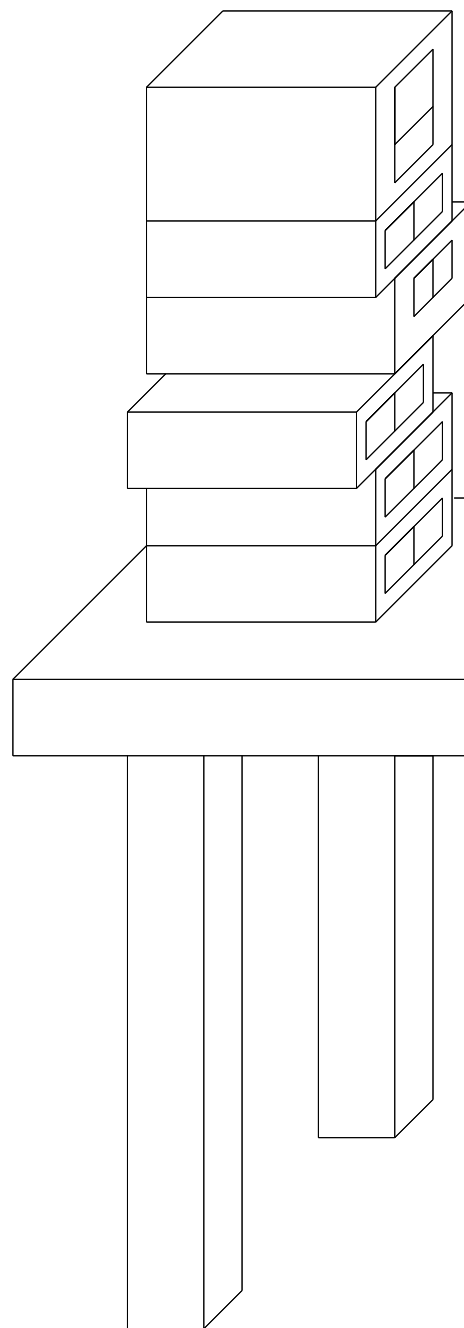


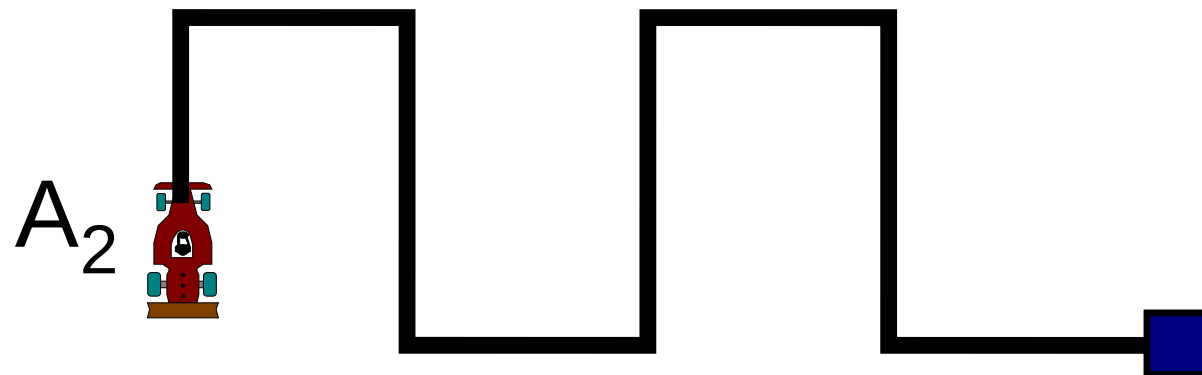
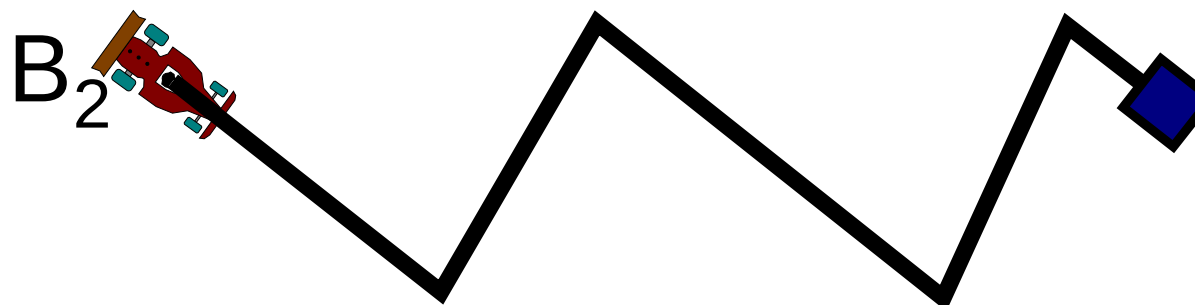


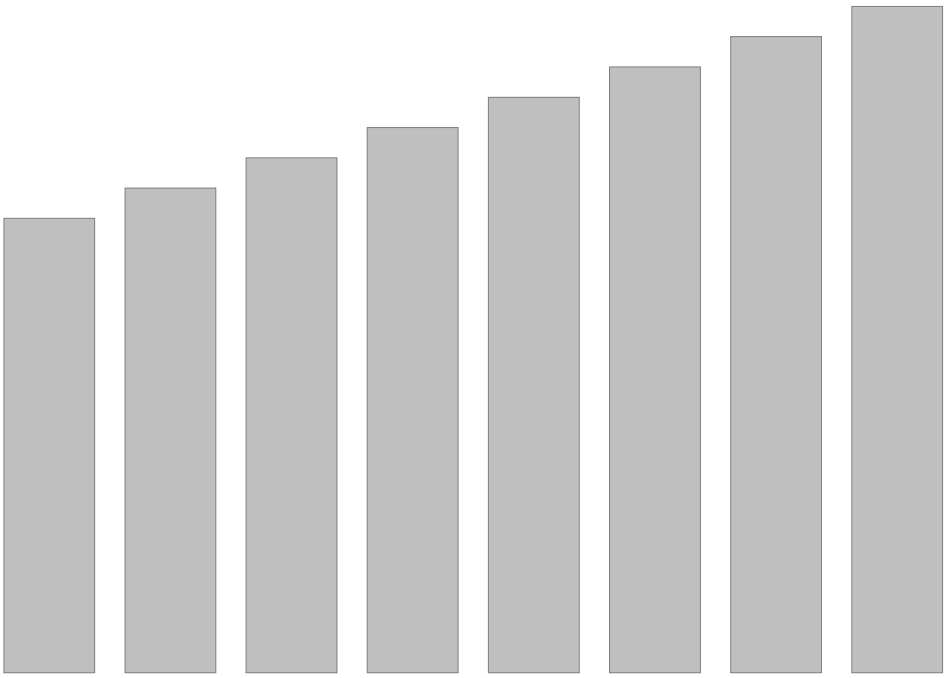
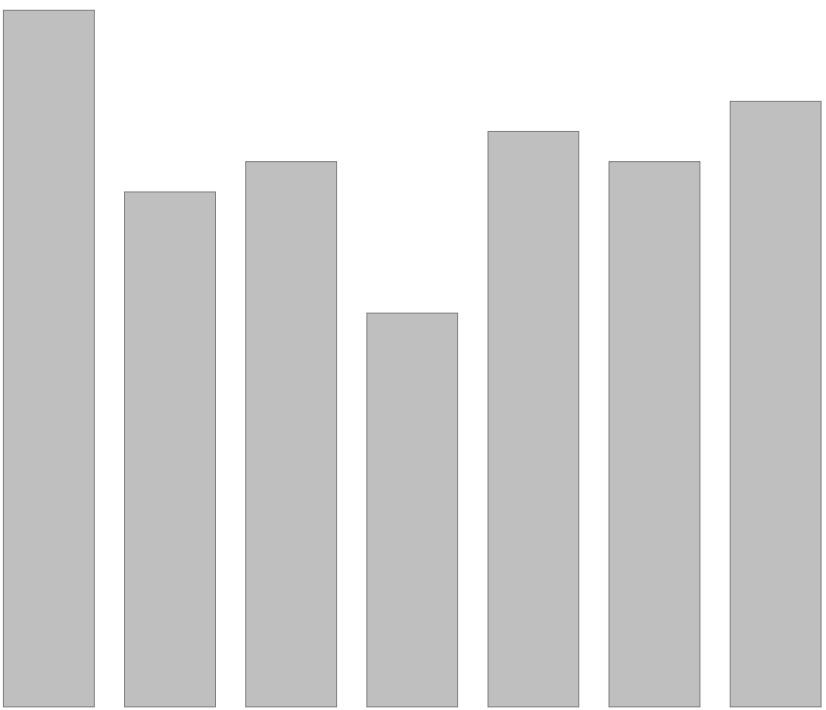
Una de las barras se
adelanta un poco
¿Son ahora igual de
largar?

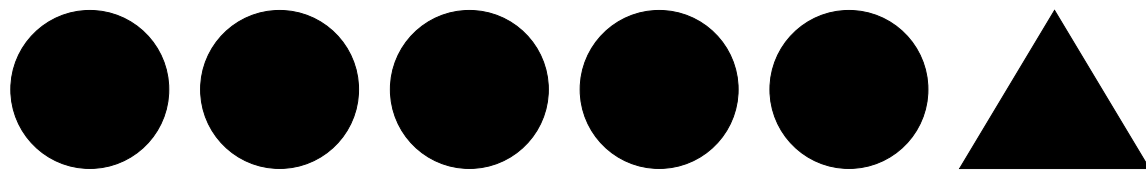
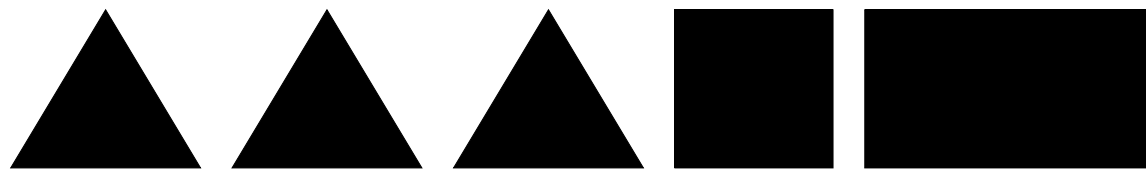
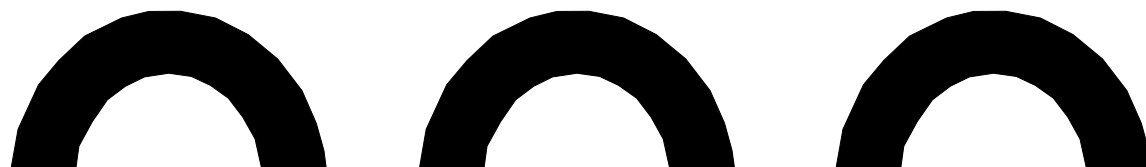
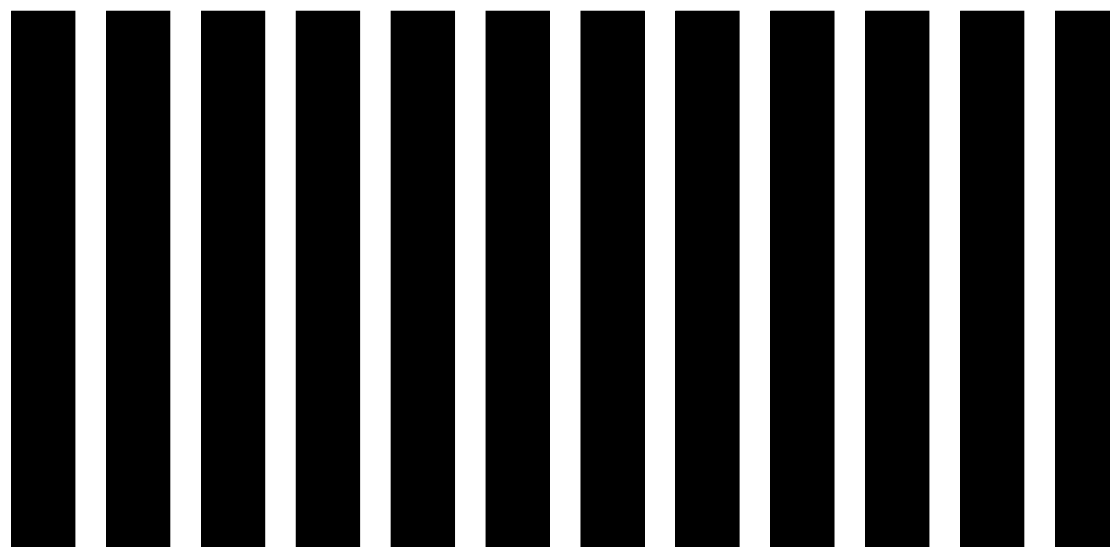


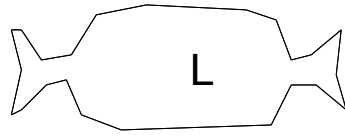
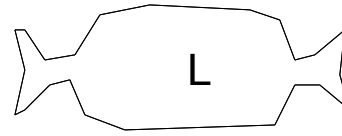
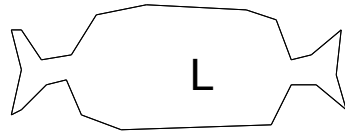
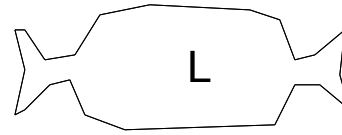
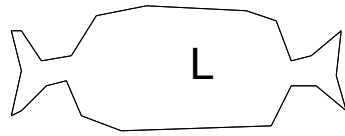
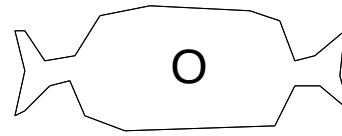
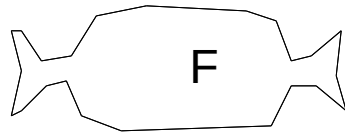
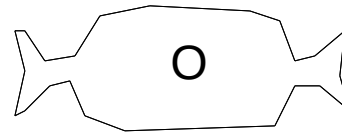
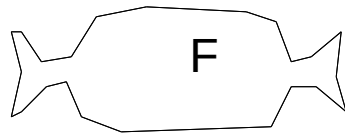
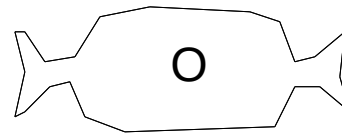


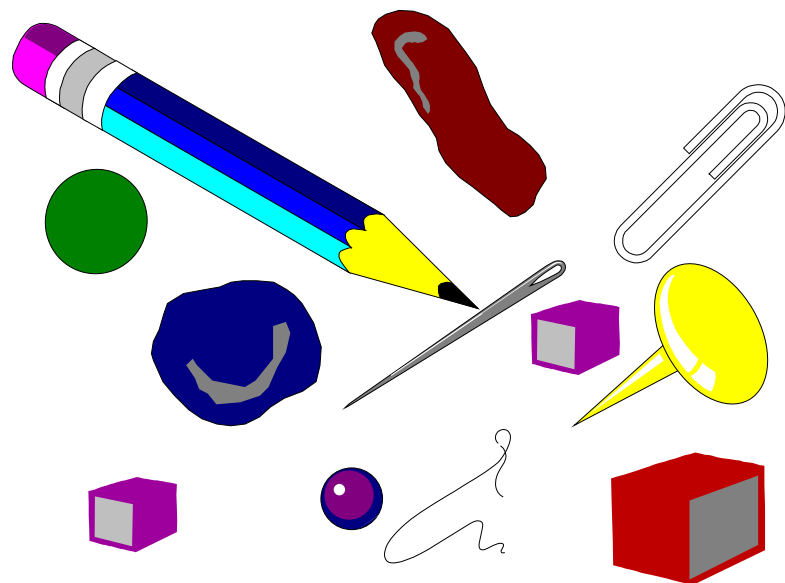
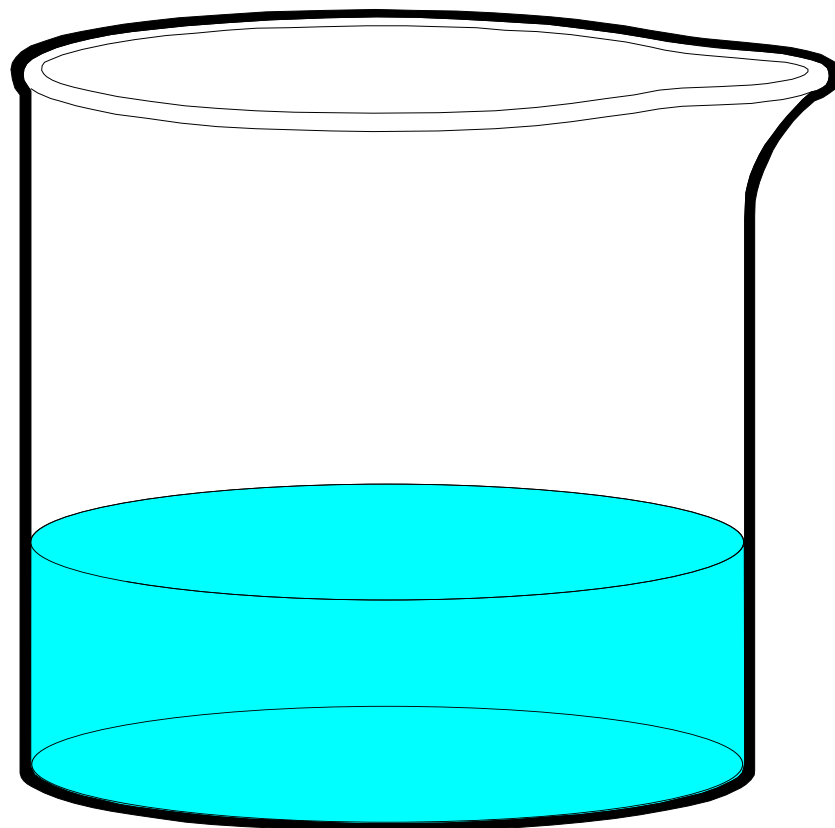


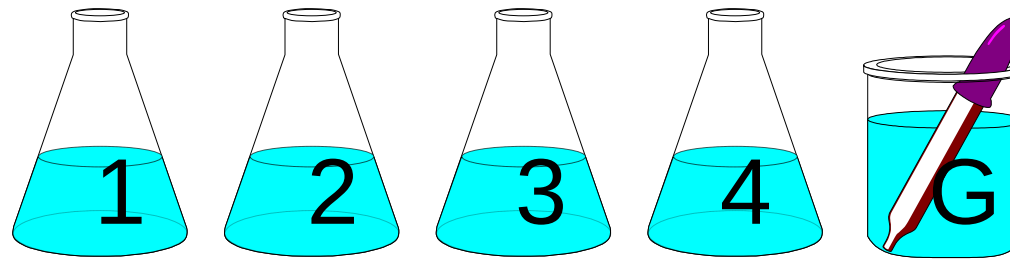
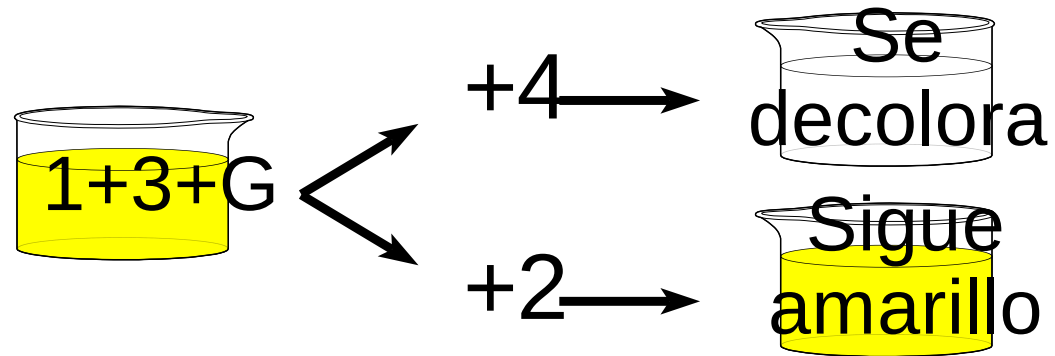
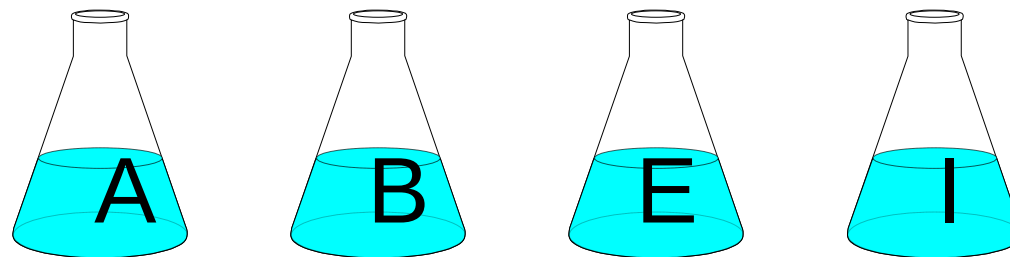
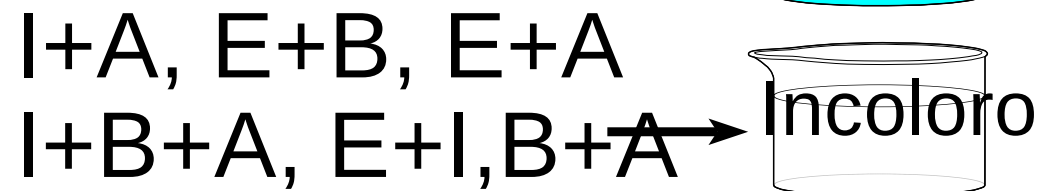


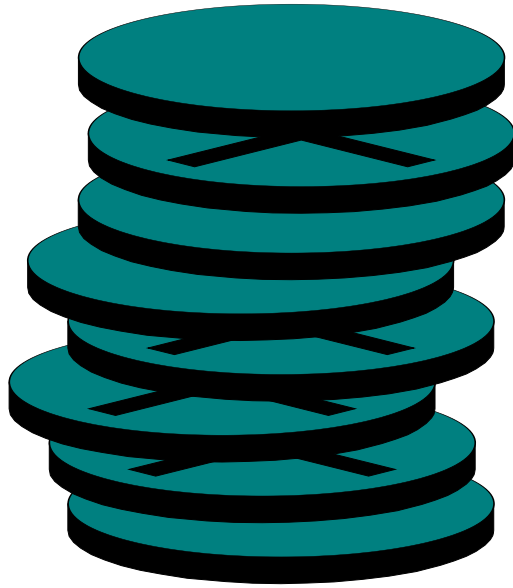












	Ojos	Pelo
A.	Azules	Rubio
B.	Azules	Negro
C.	Negros	Rubio
D.	Negros	Negro

A,B,C,D	A,B,C,D
4,0,0,4	13,8,3,8
4,4,4,4	6,4,2,4
6,6,2,2	4,4,4,4

A [redacted]

F [redacted]

B [redacted]

G [redacted]

C [redacted]

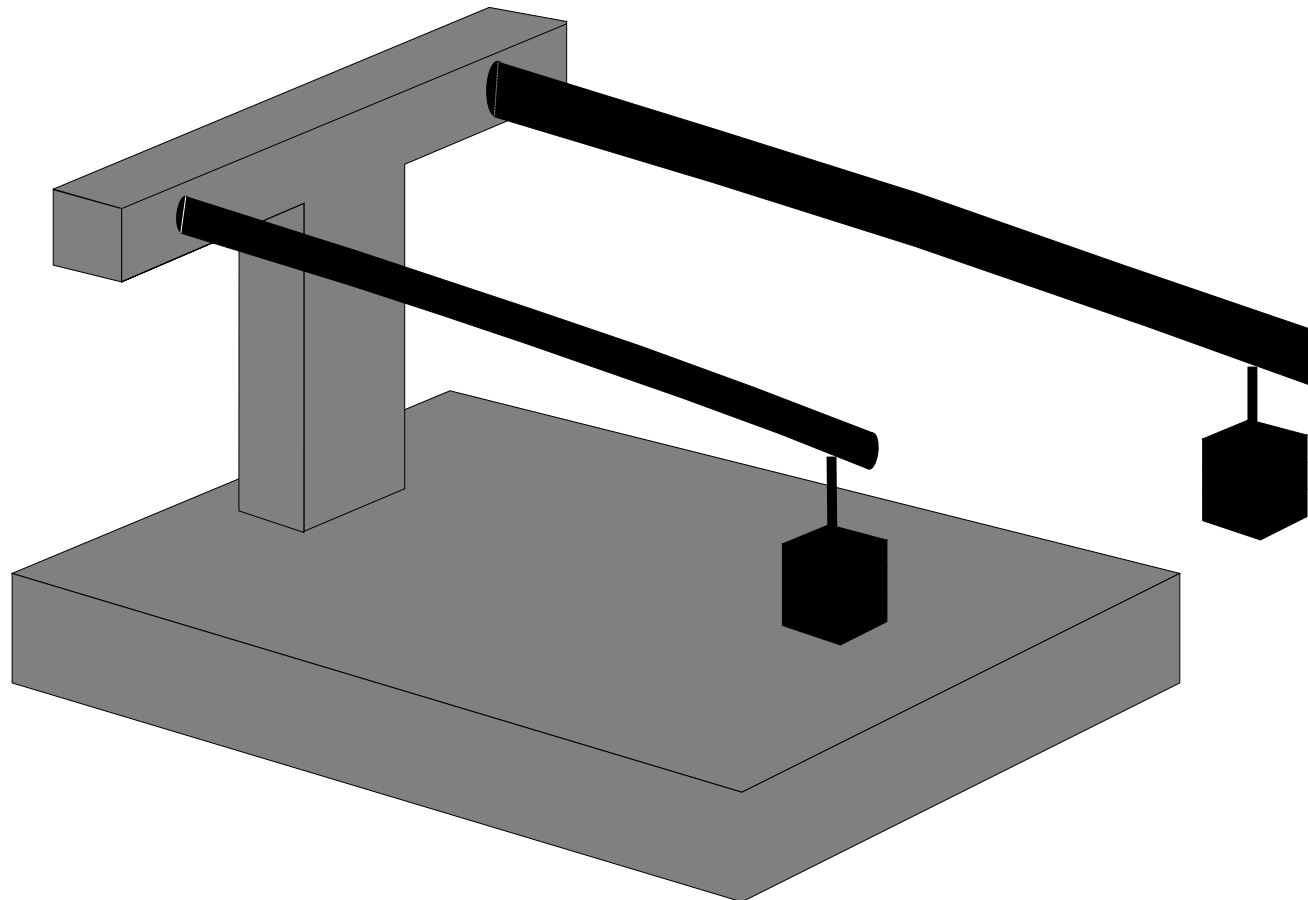
H [redacted]

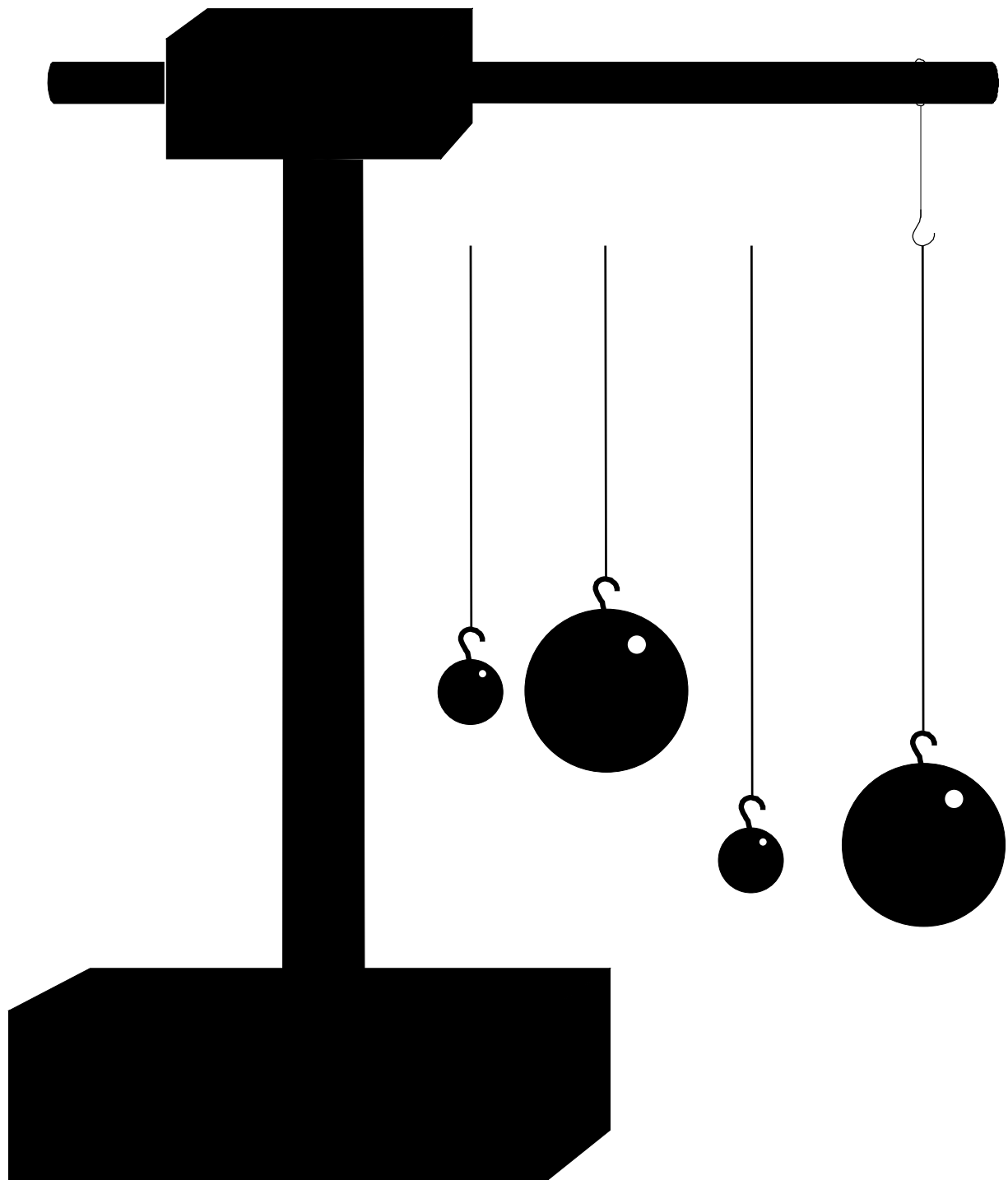
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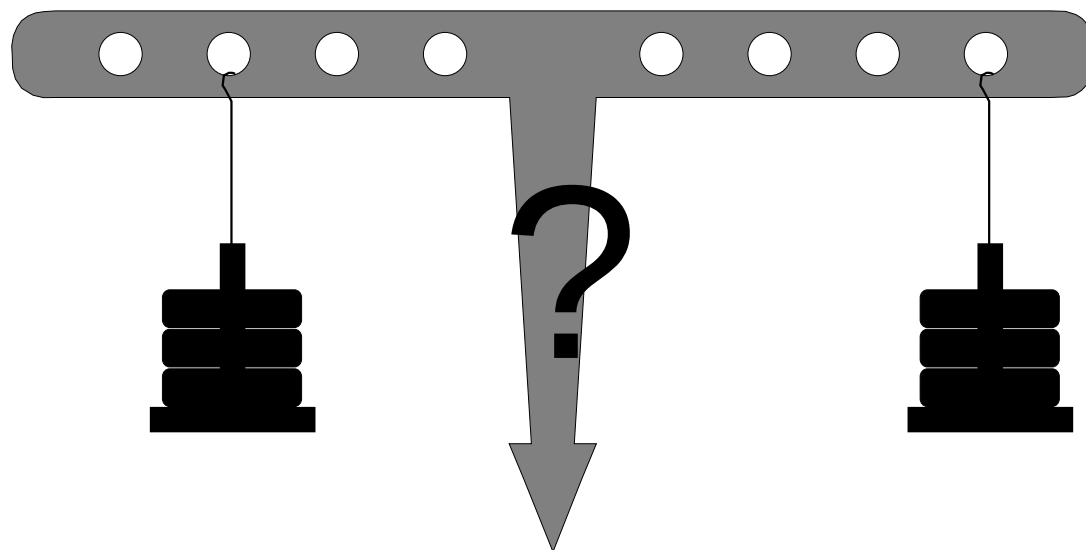
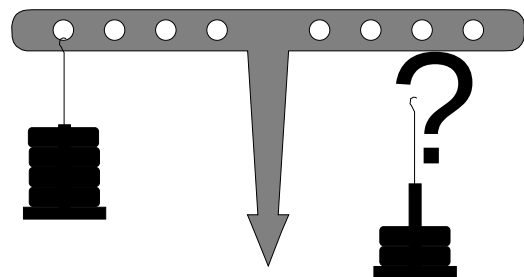
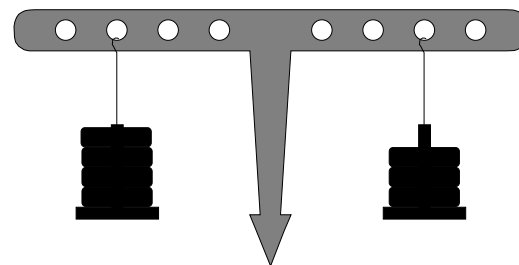
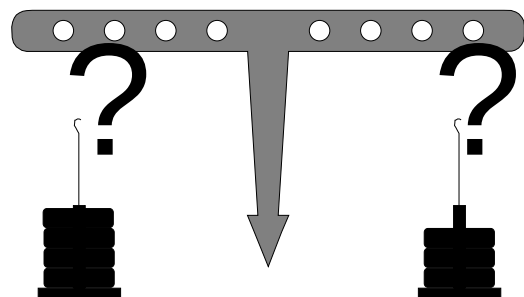
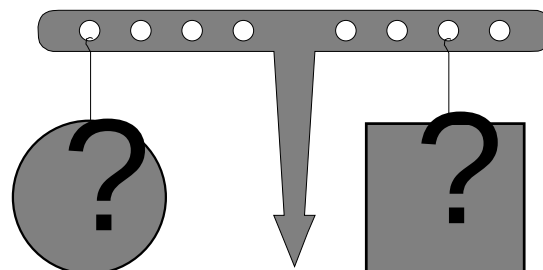
I [redacted]

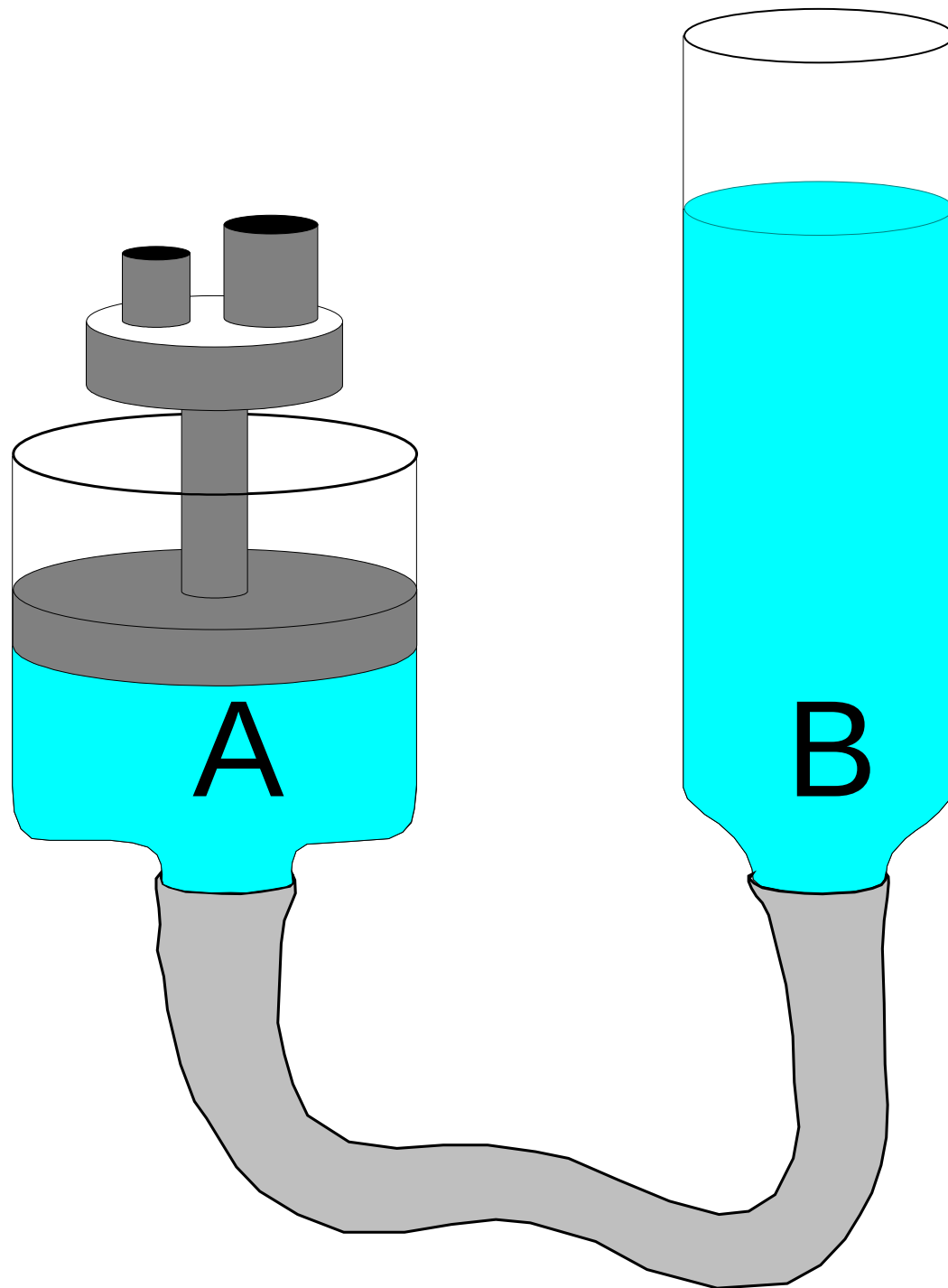
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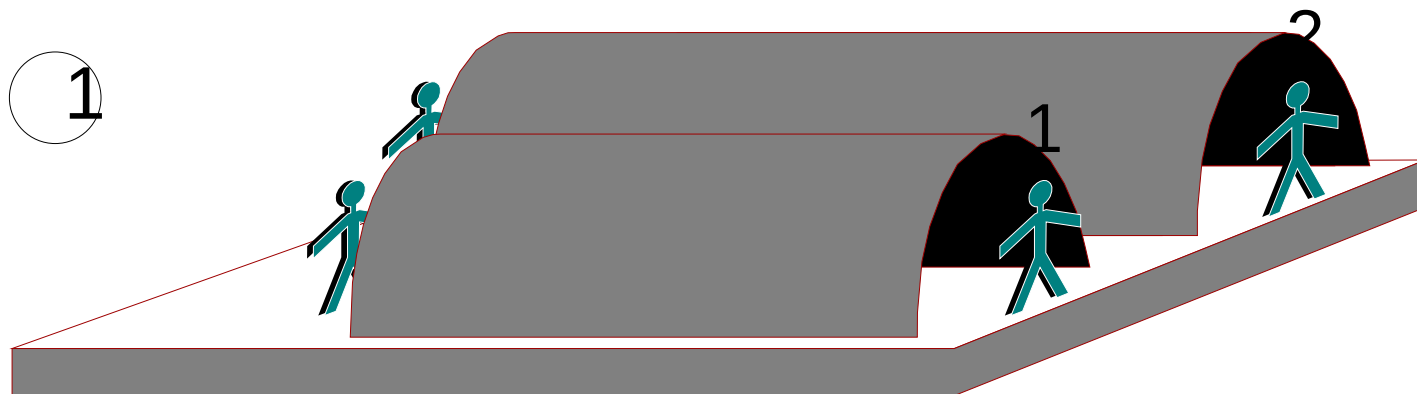
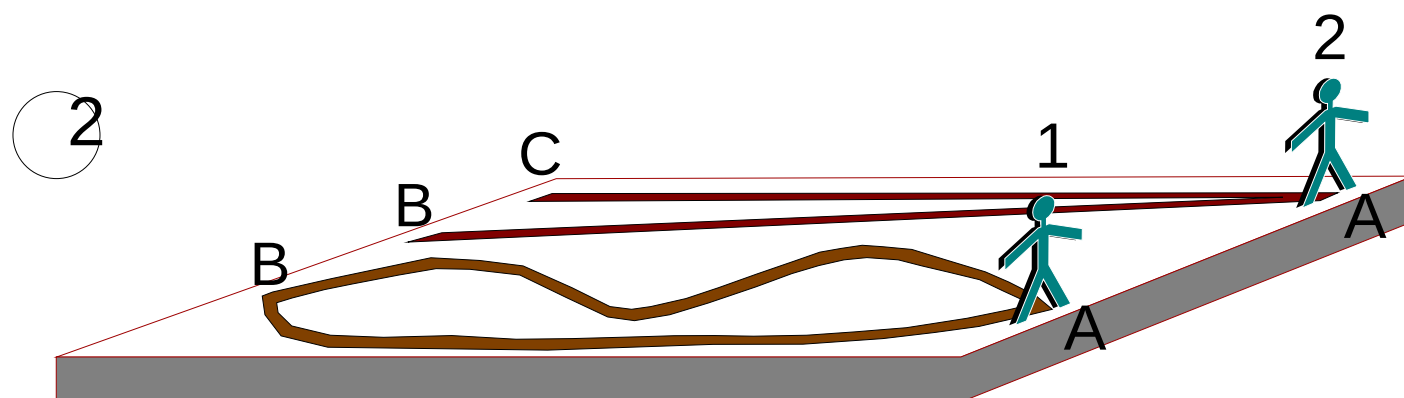
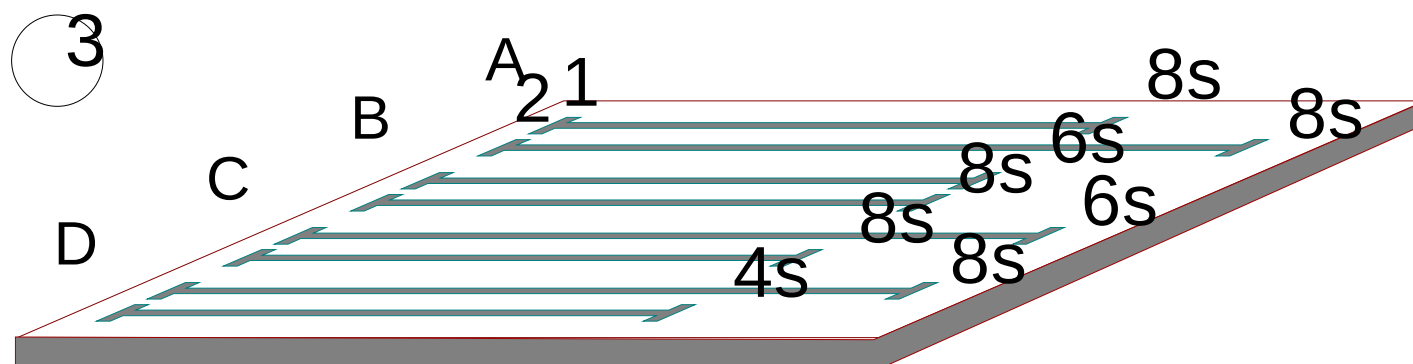
J [redacted]

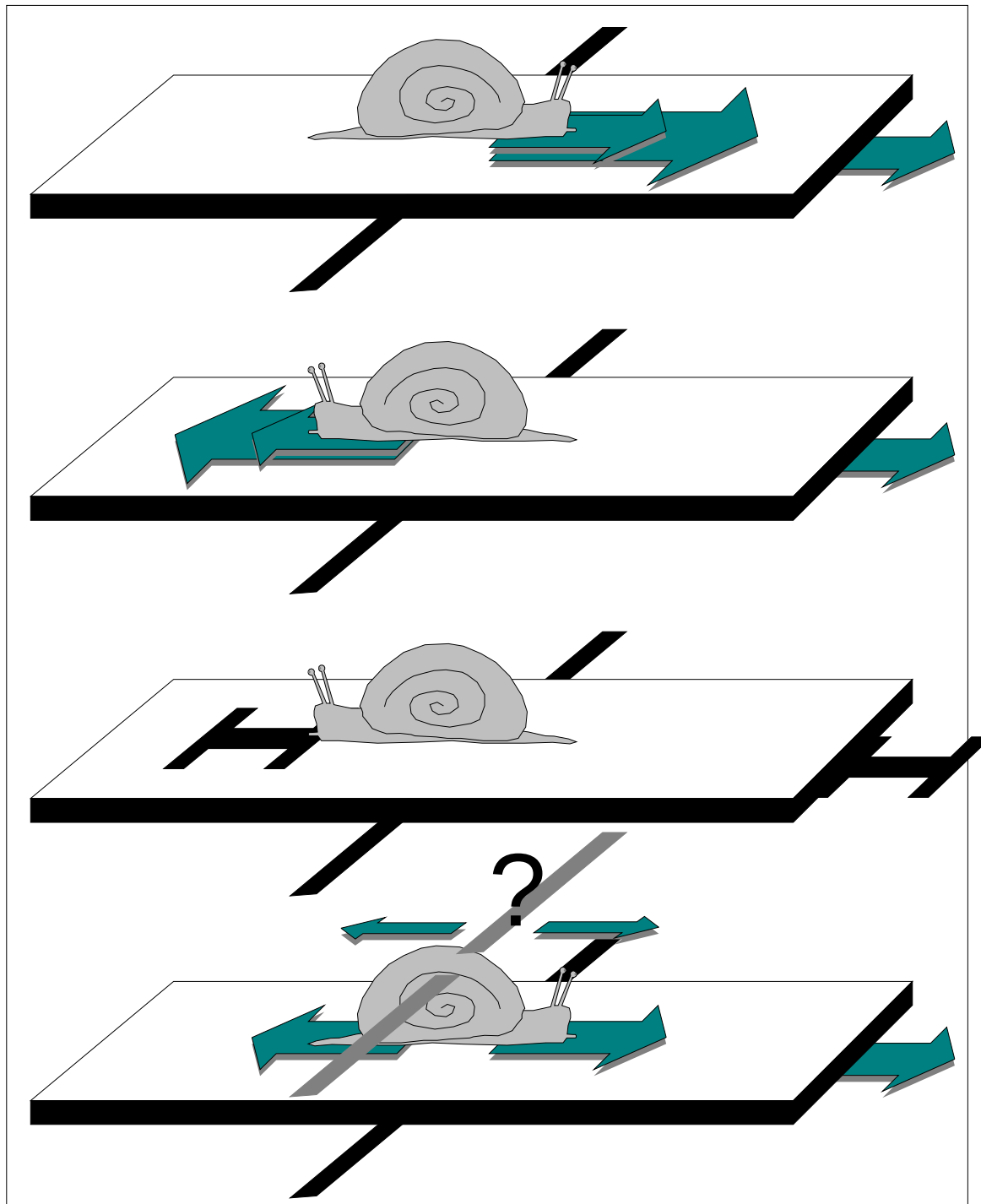


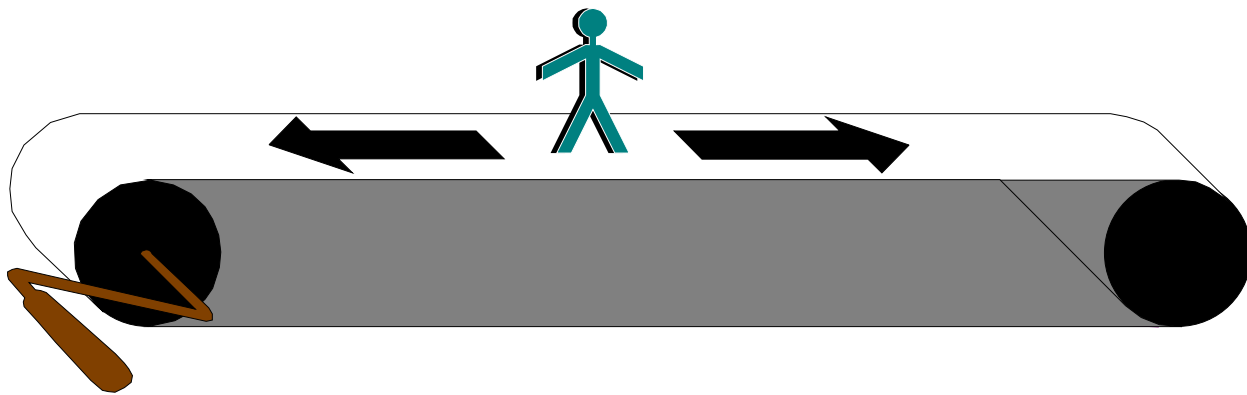
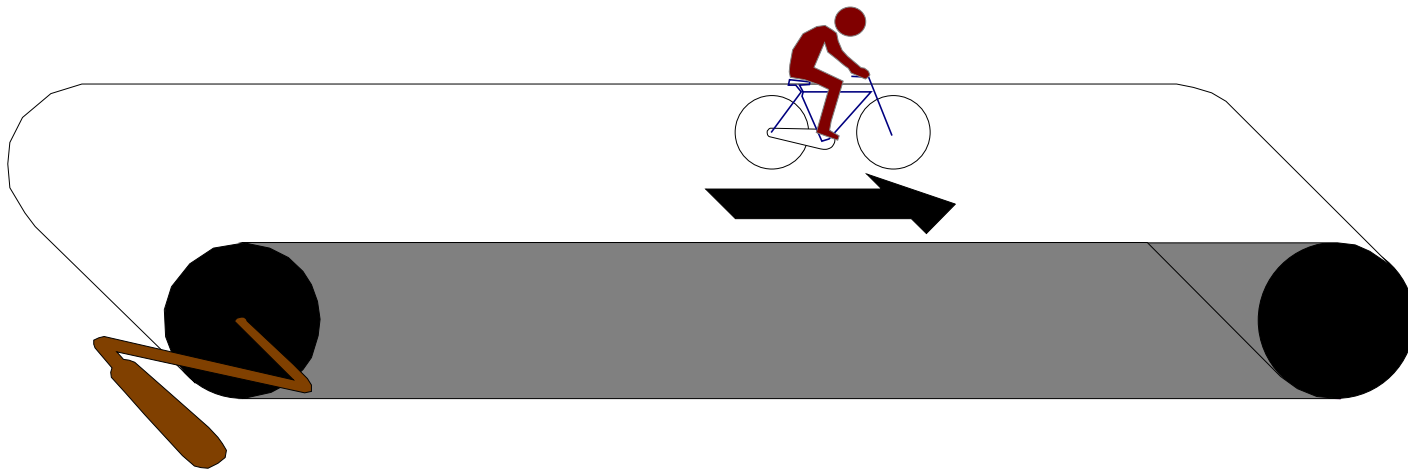
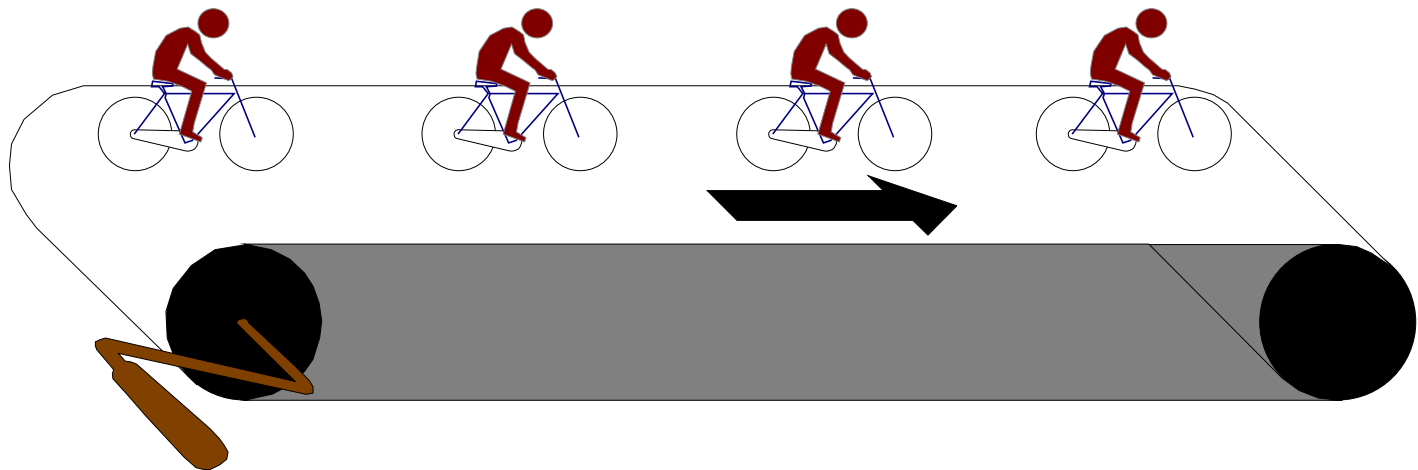


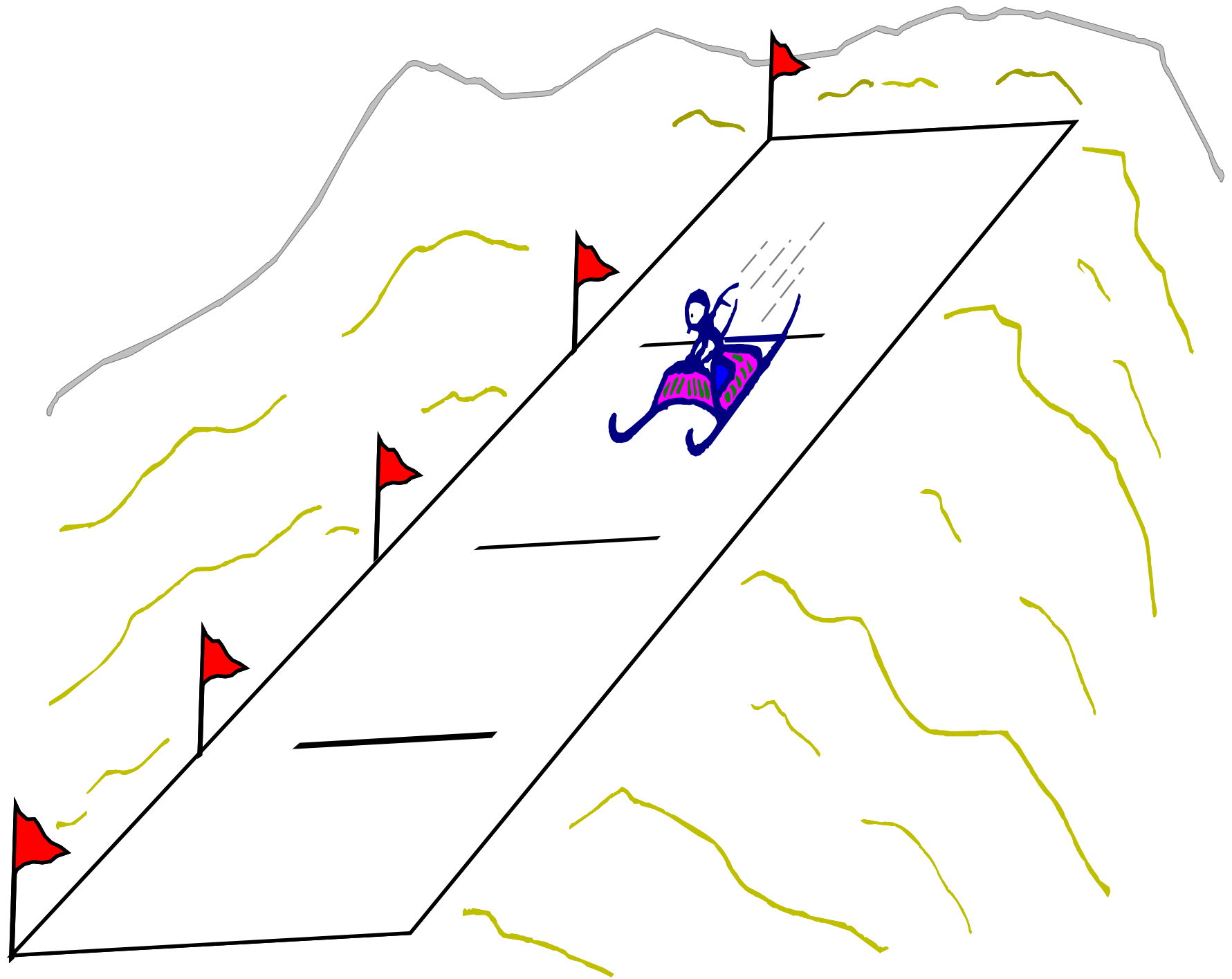


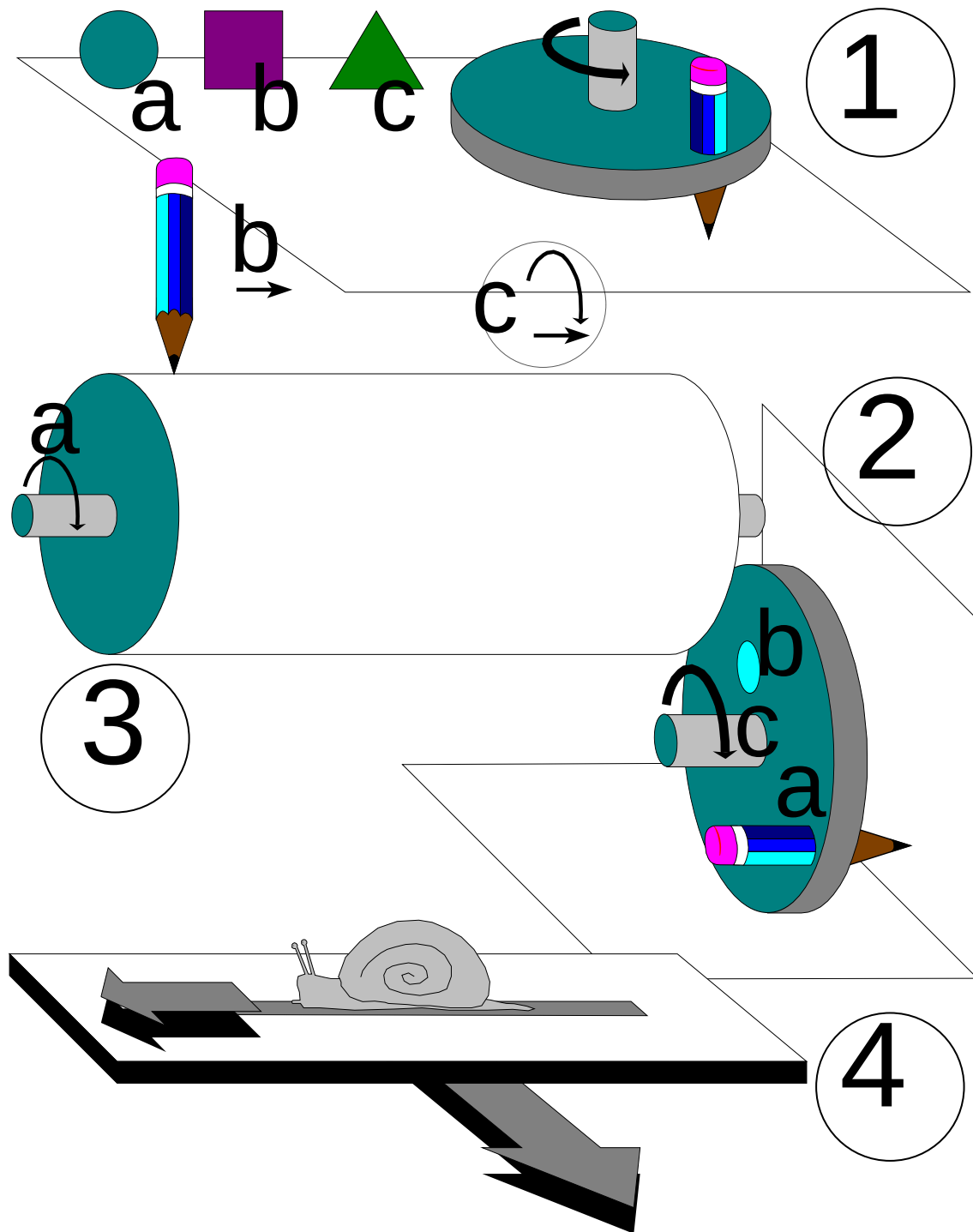


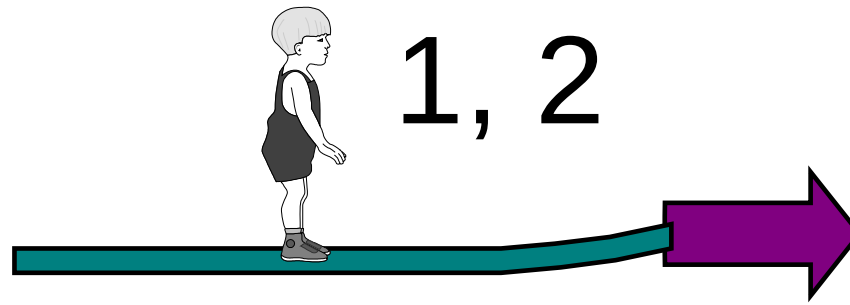
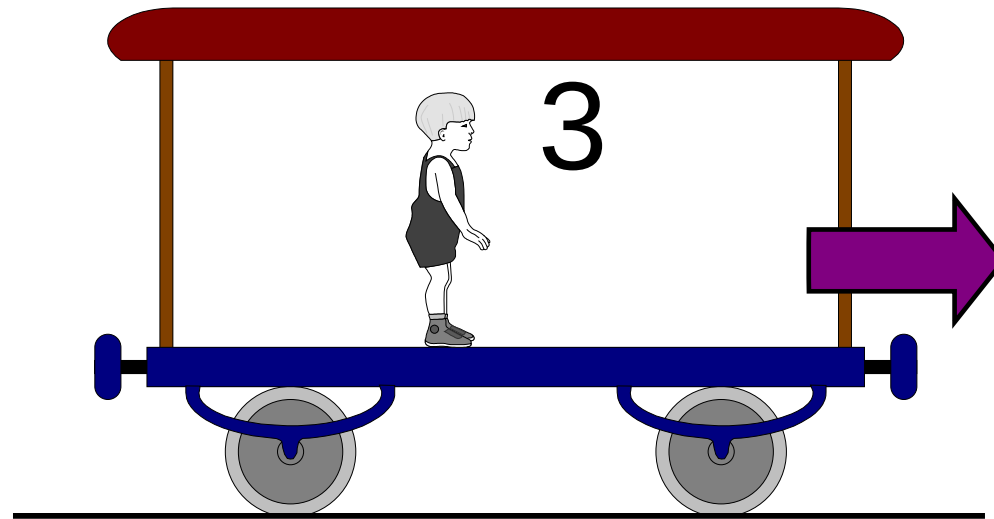
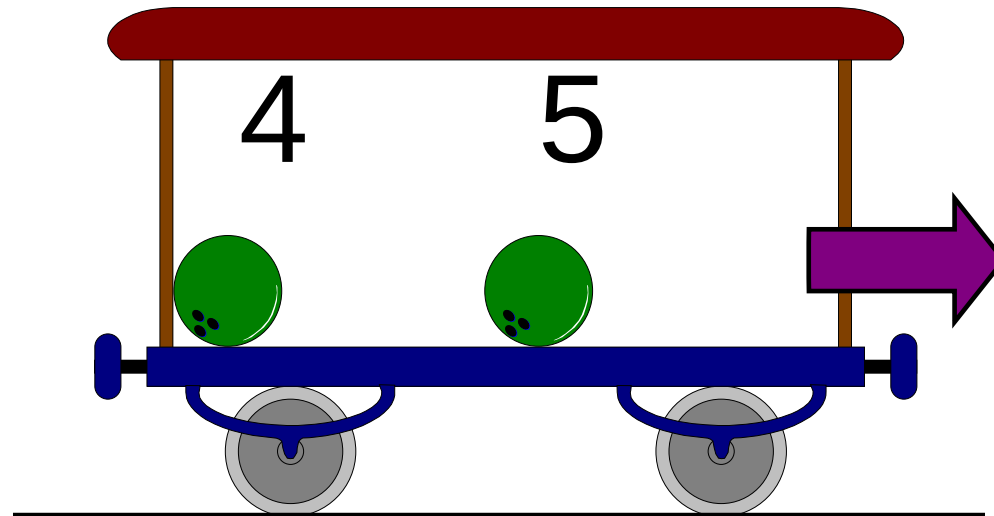


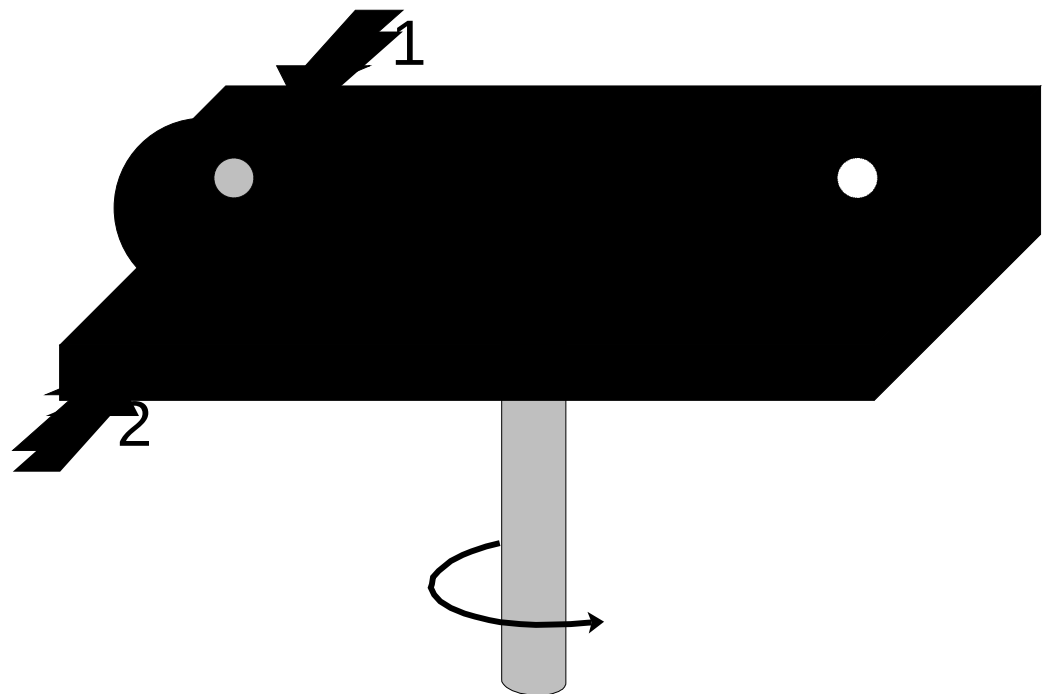
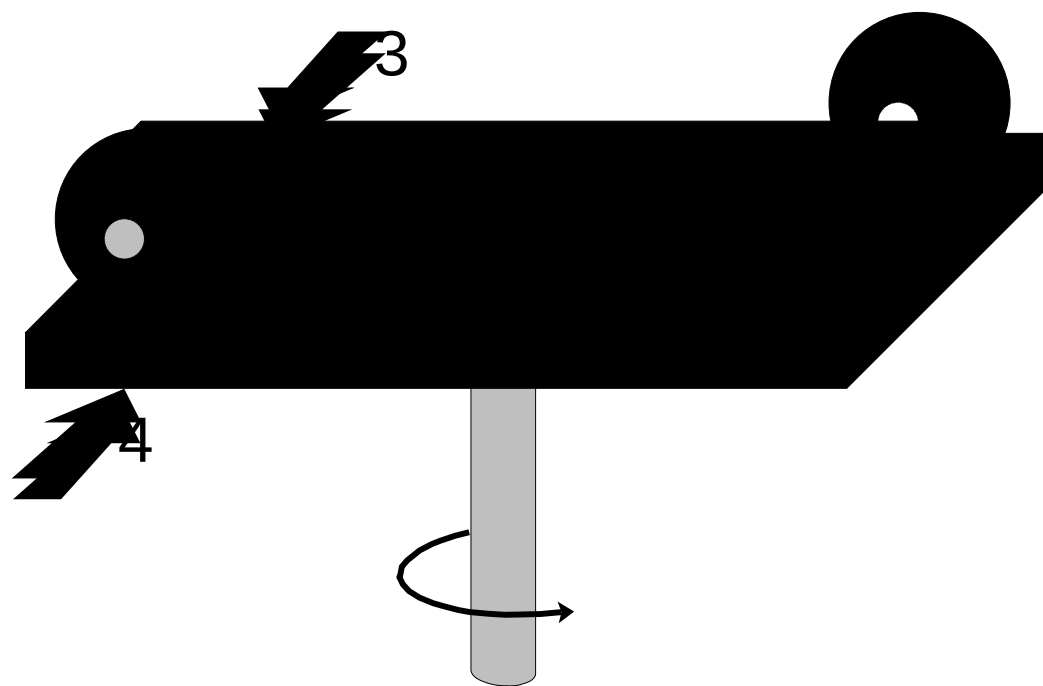


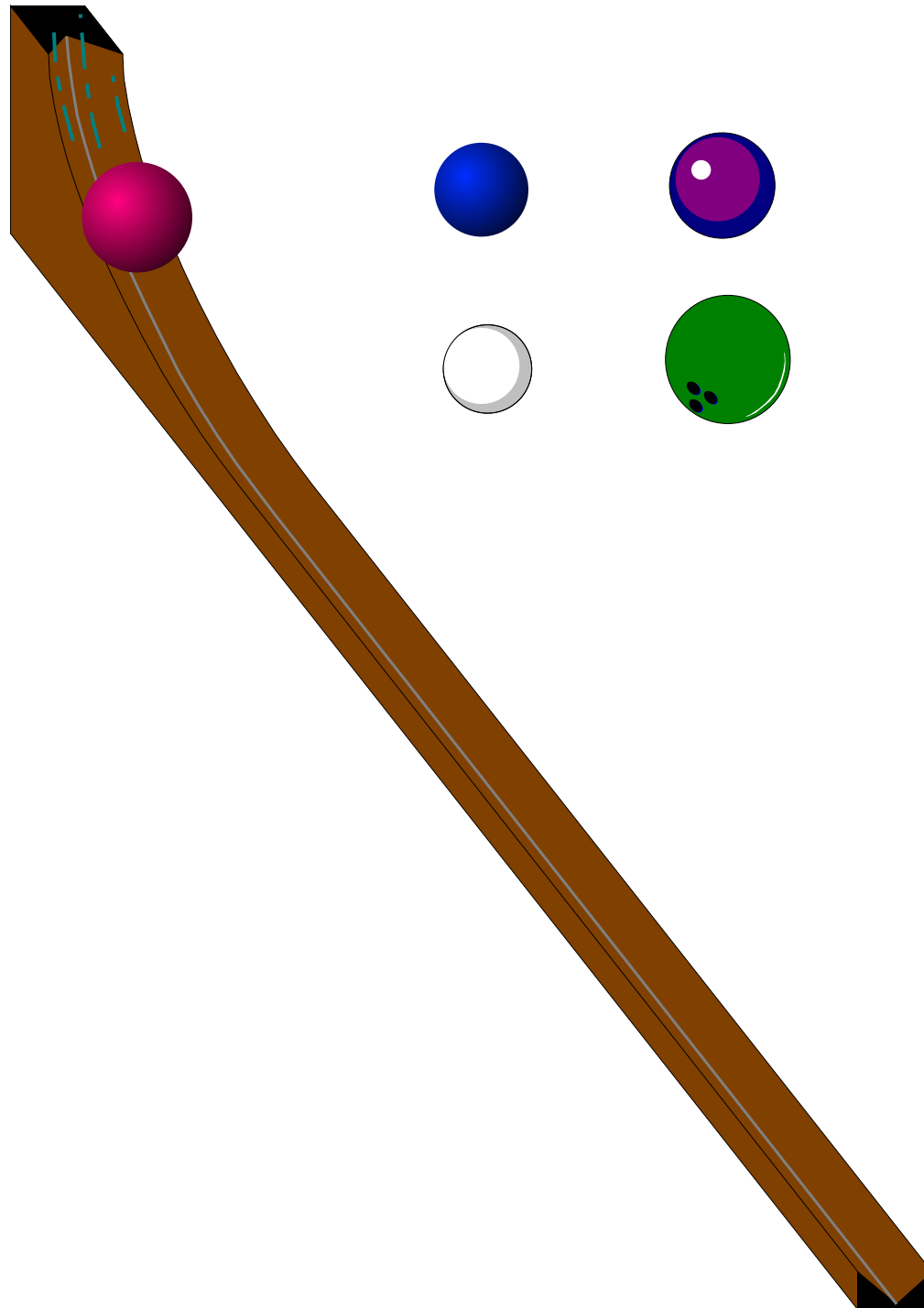


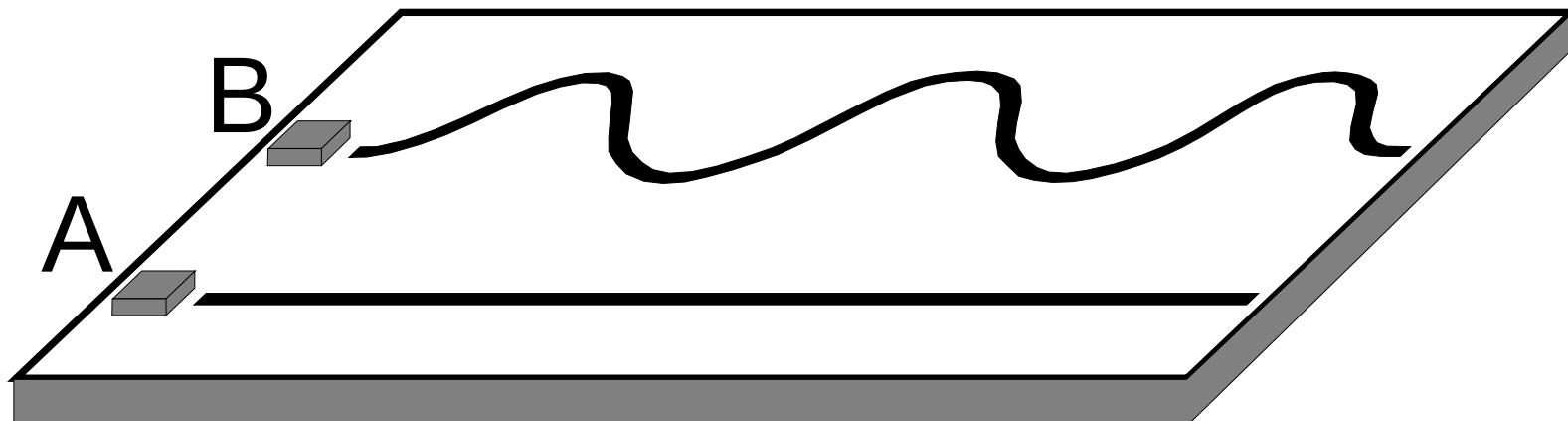
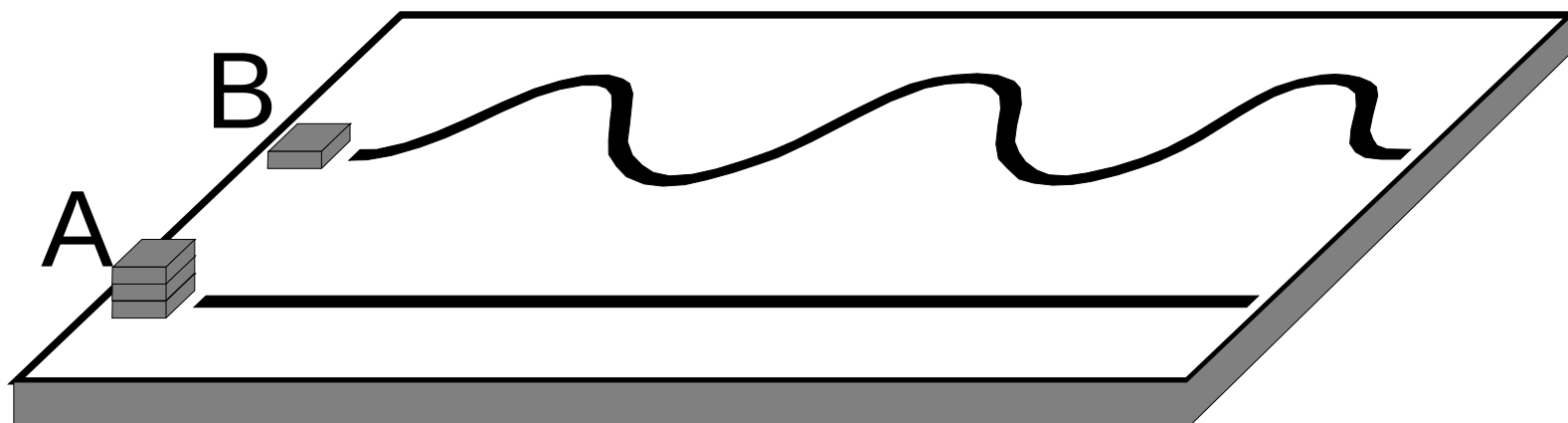
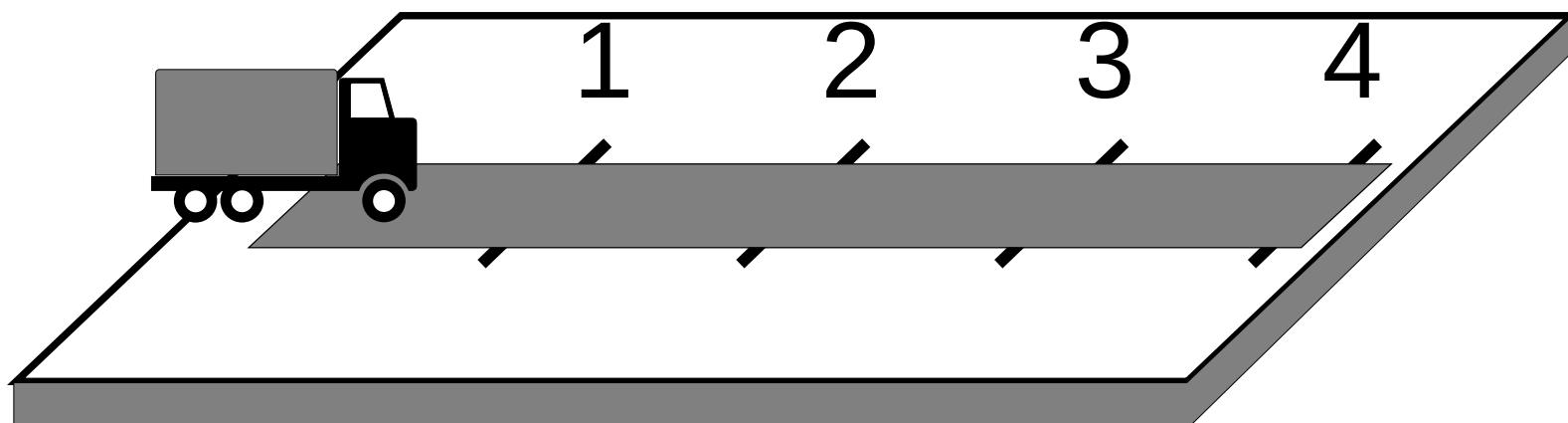


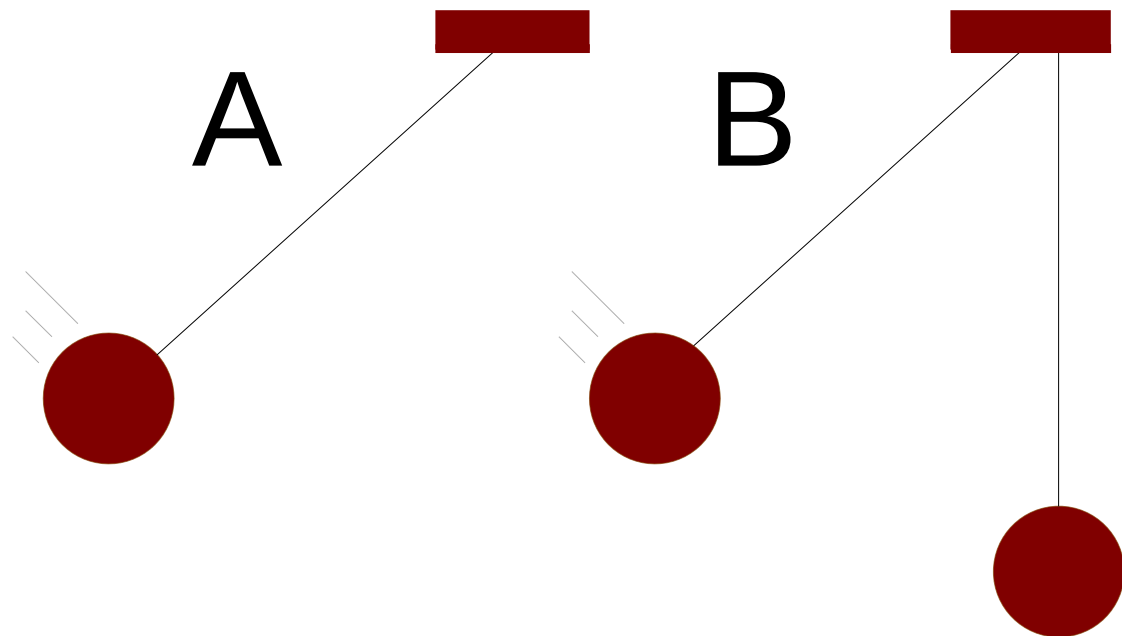
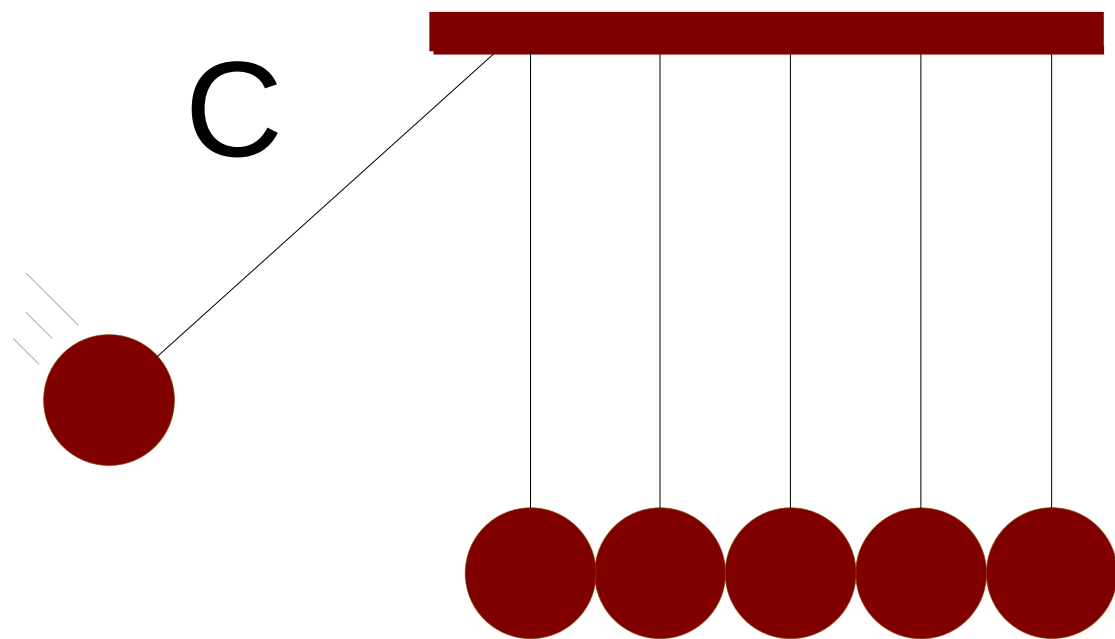


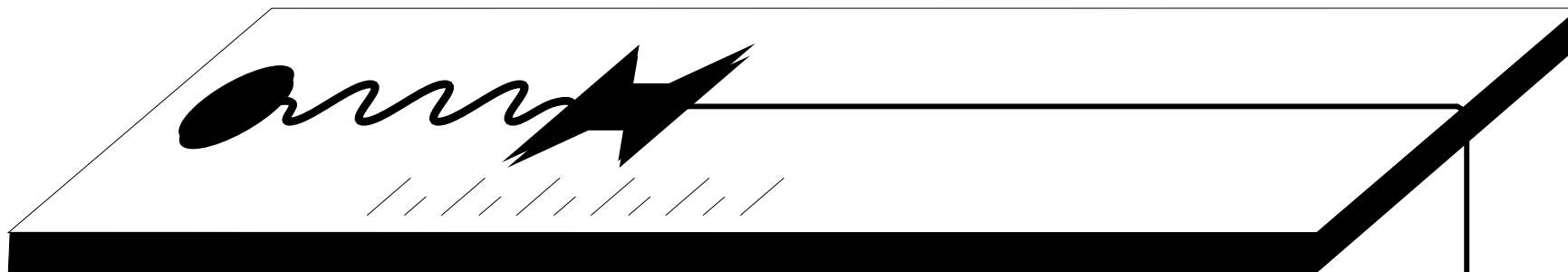




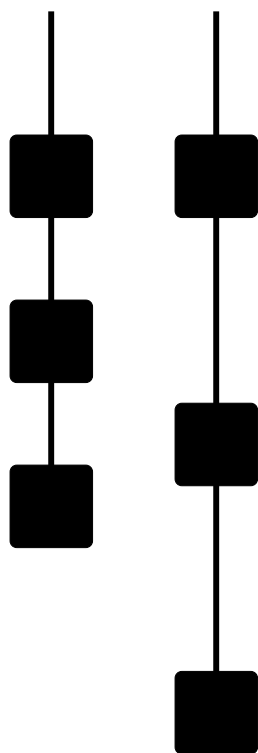




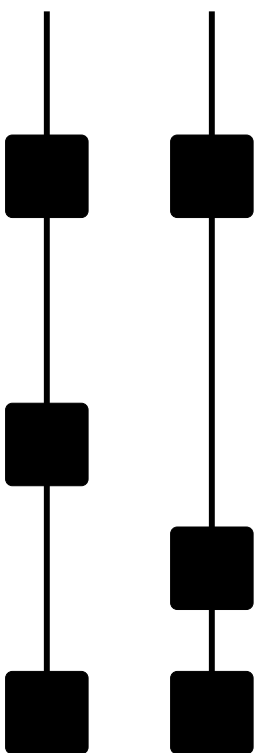




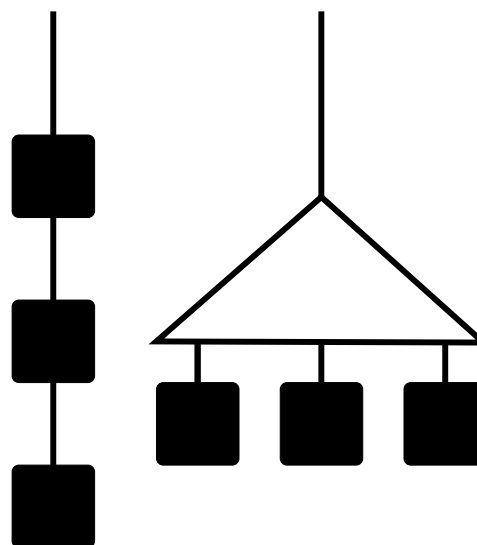
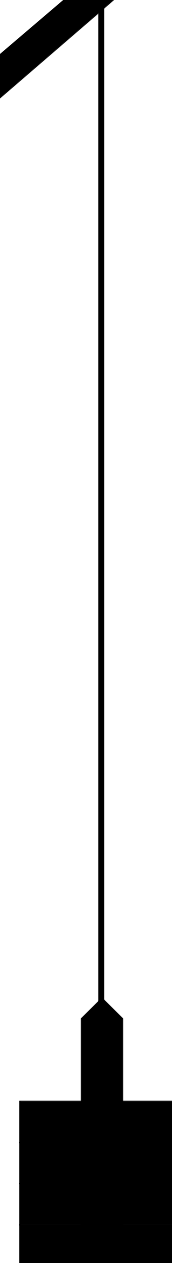
a

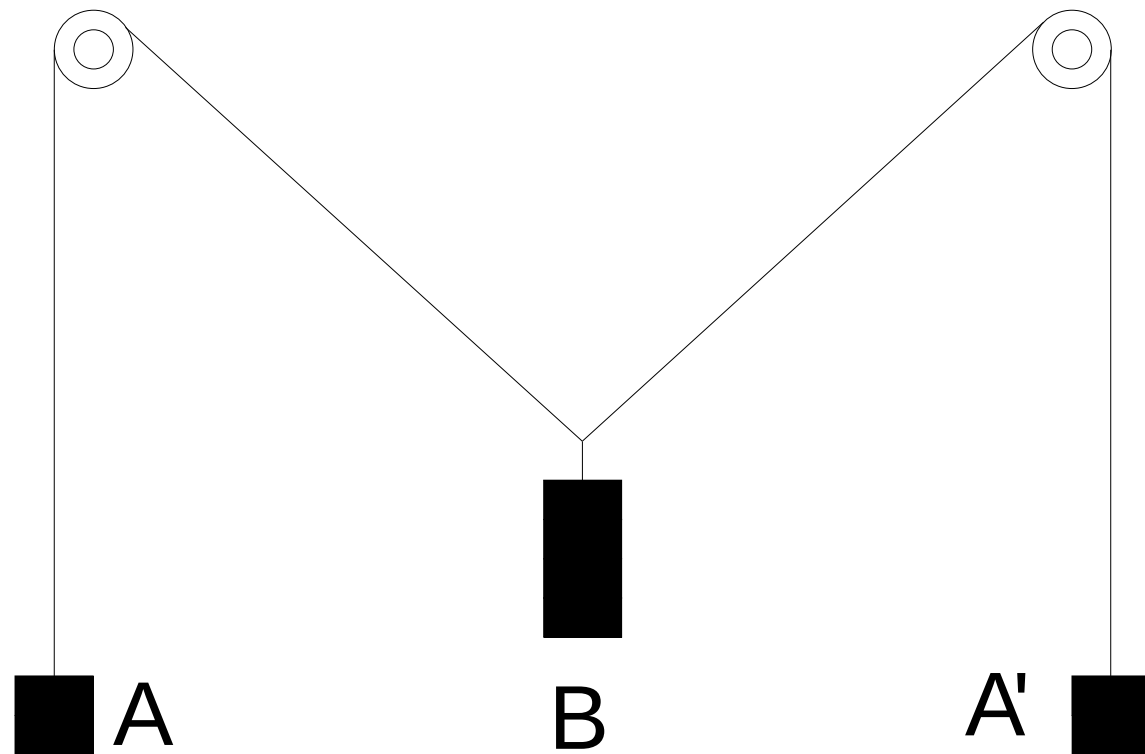


b



c





2

?

2

4

?

4

4

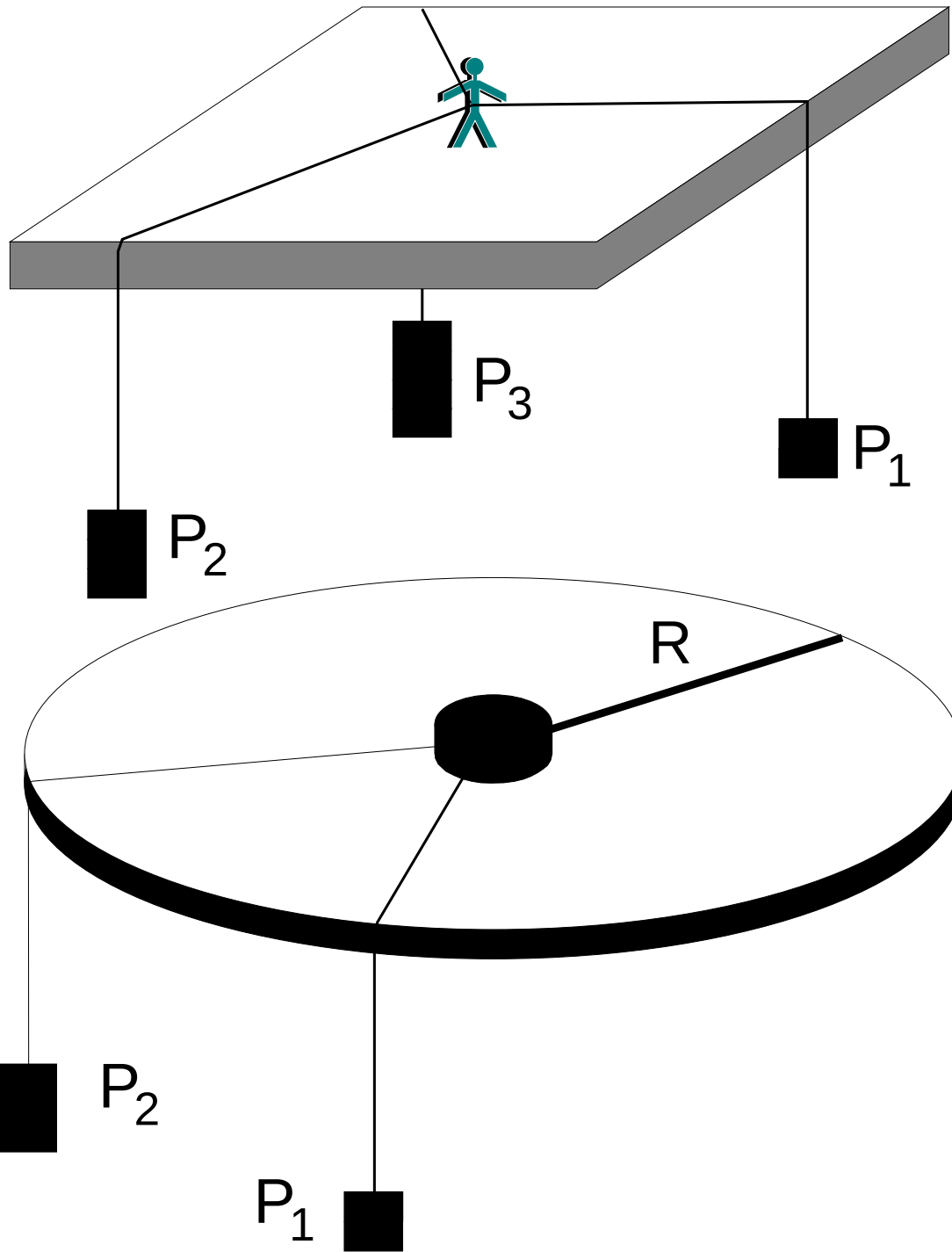
1

4

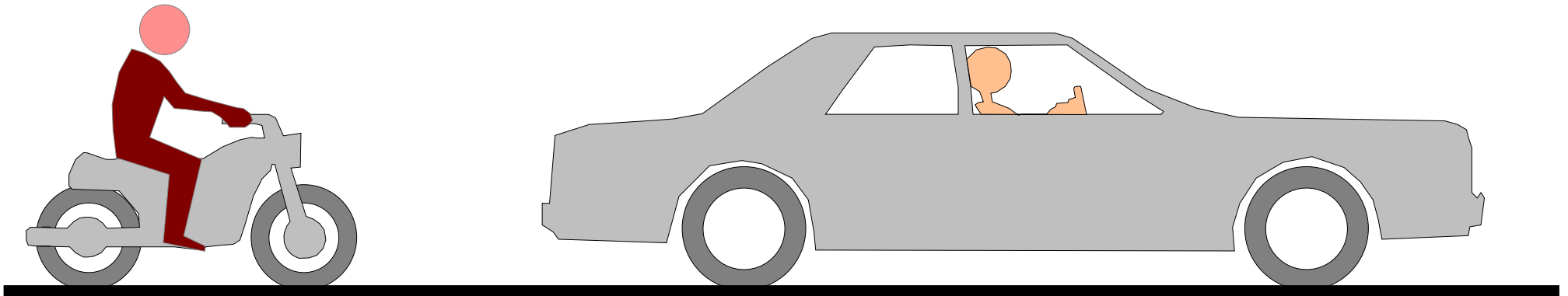
4

6

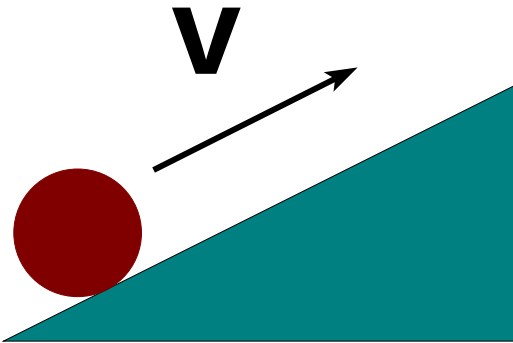
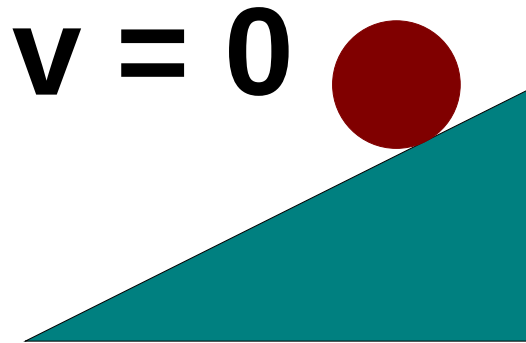
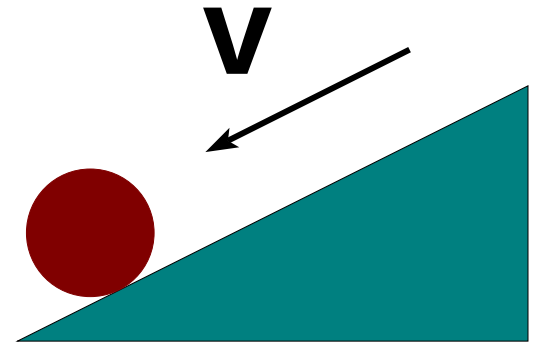
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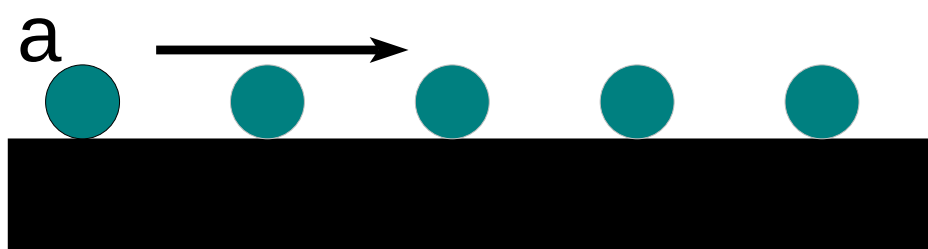
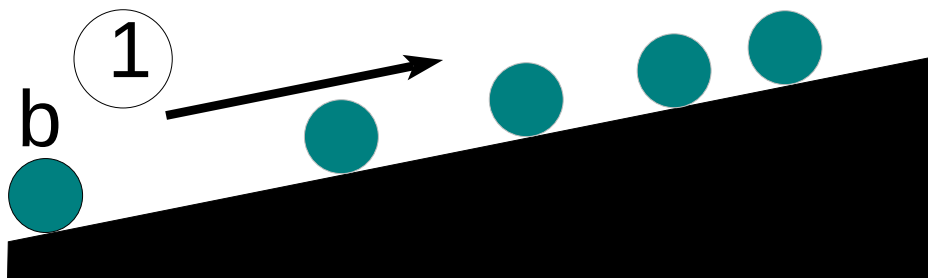
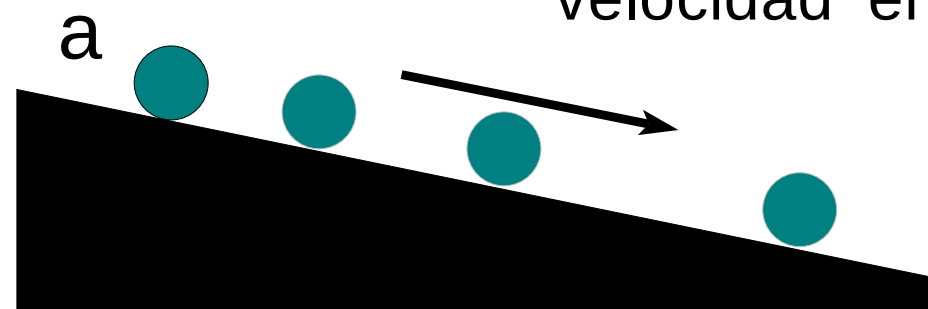
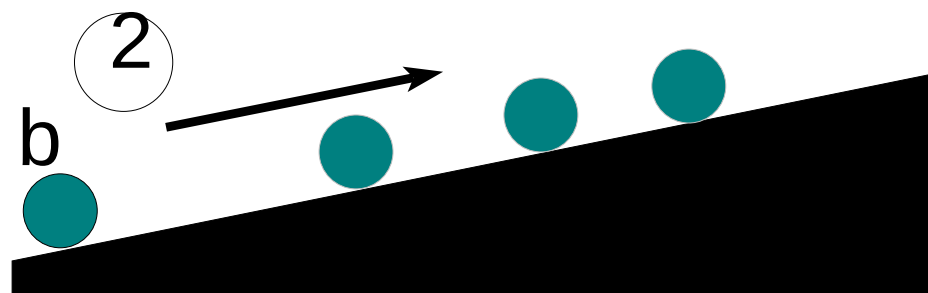
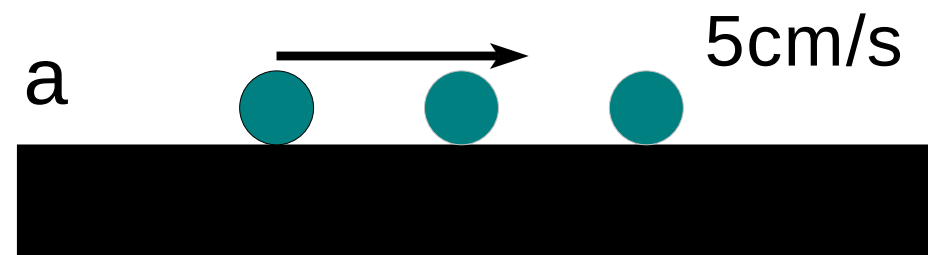
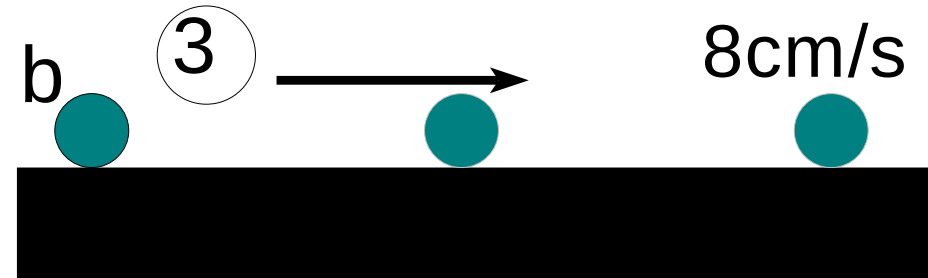


El motorista arranca cuando ve al vehículo
cometer una infracción, finalmente lo alcanza
¿llevan la misma velocidad en algún momento?

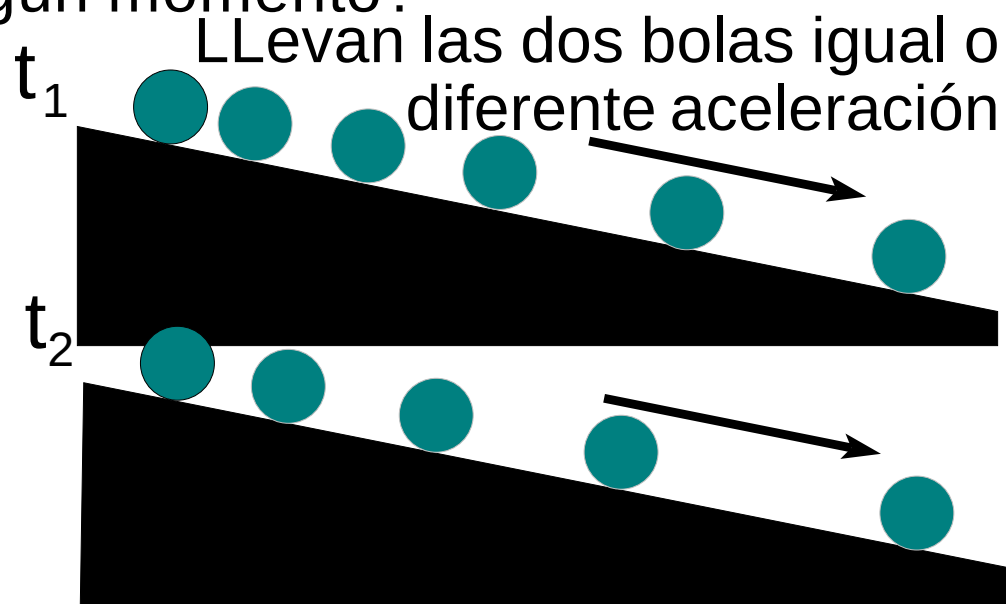


¿Cuál será el valor y el sentido de la aceleración?

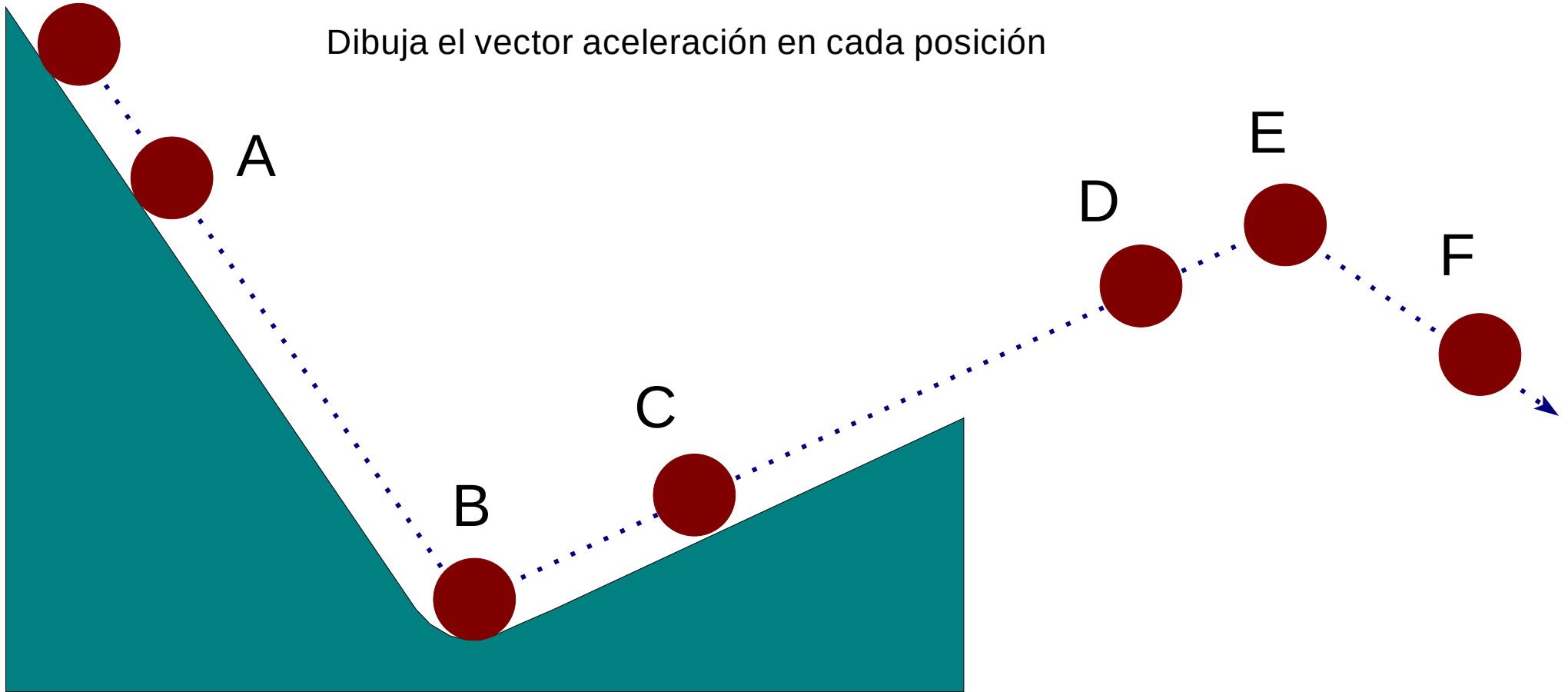




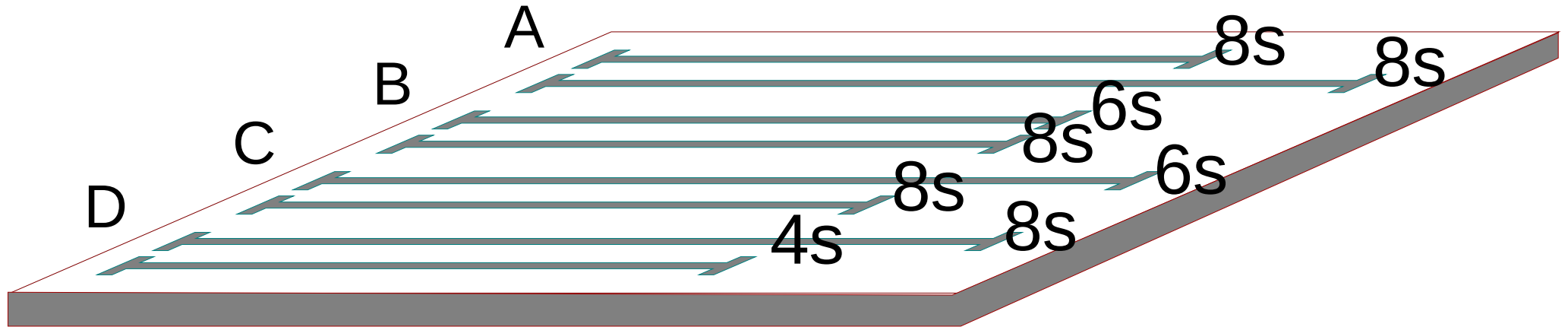
¿LLevan las dos bolas la misma
velocidad en algún momento?

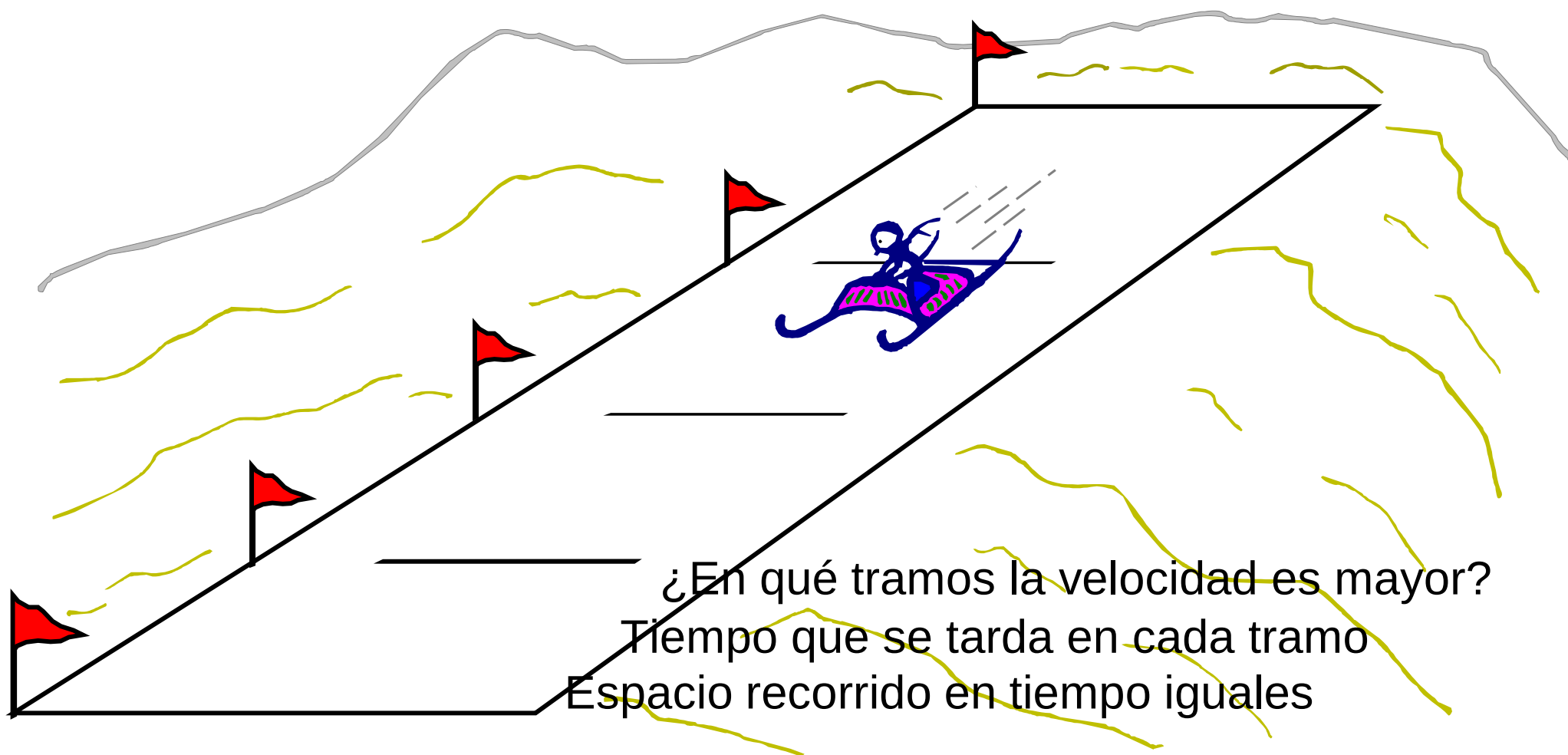


Dibuja el vector aceleración en cada posición

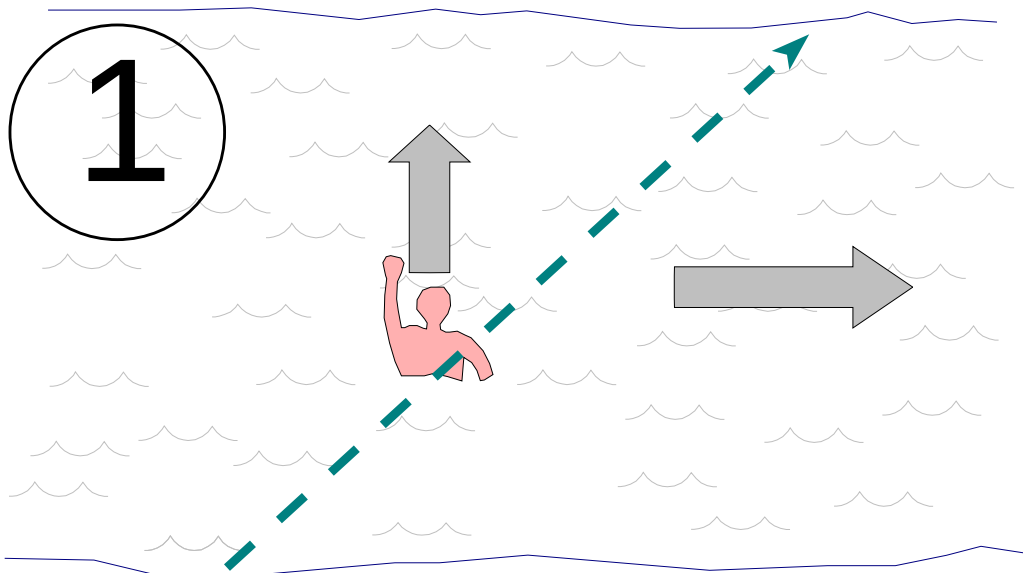
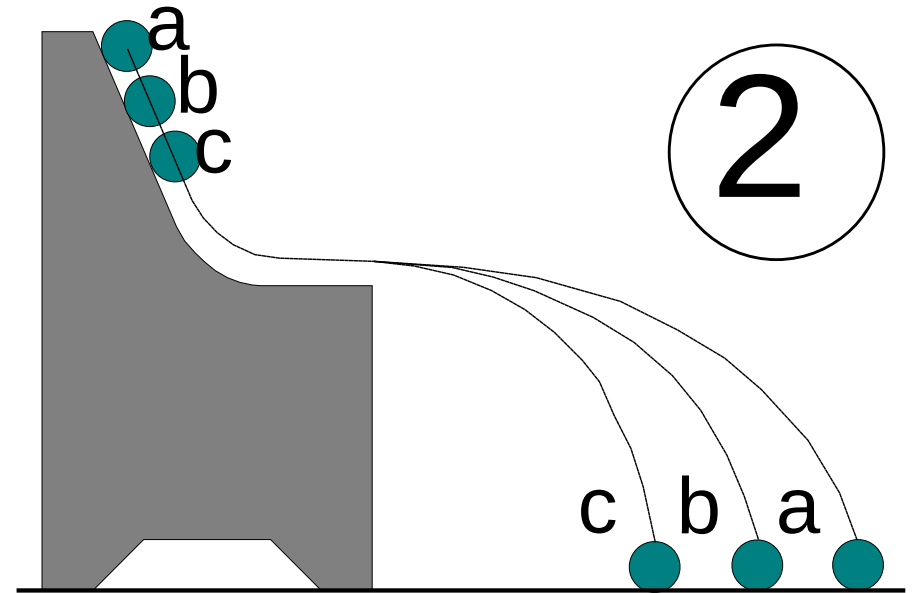
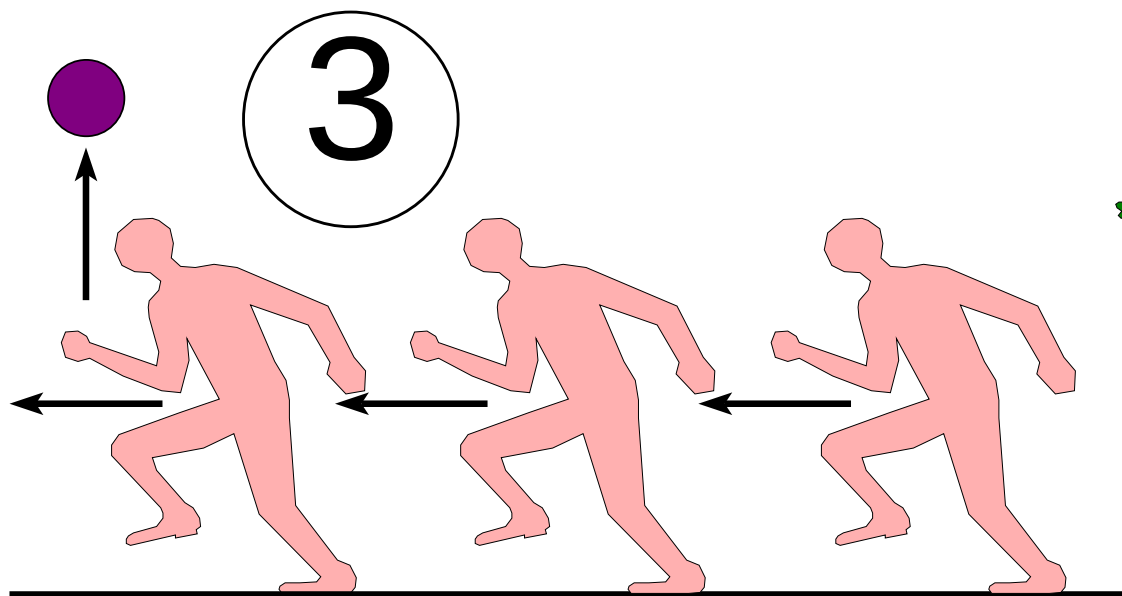
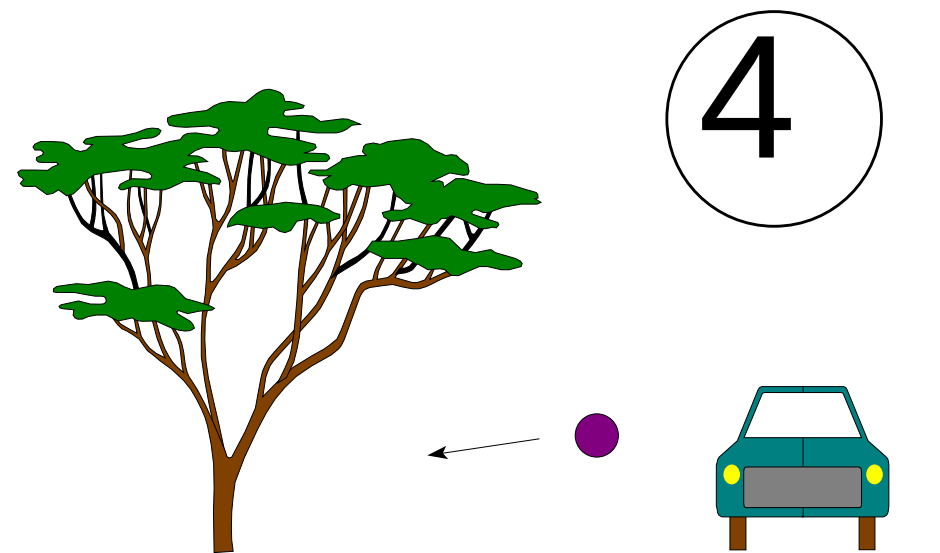


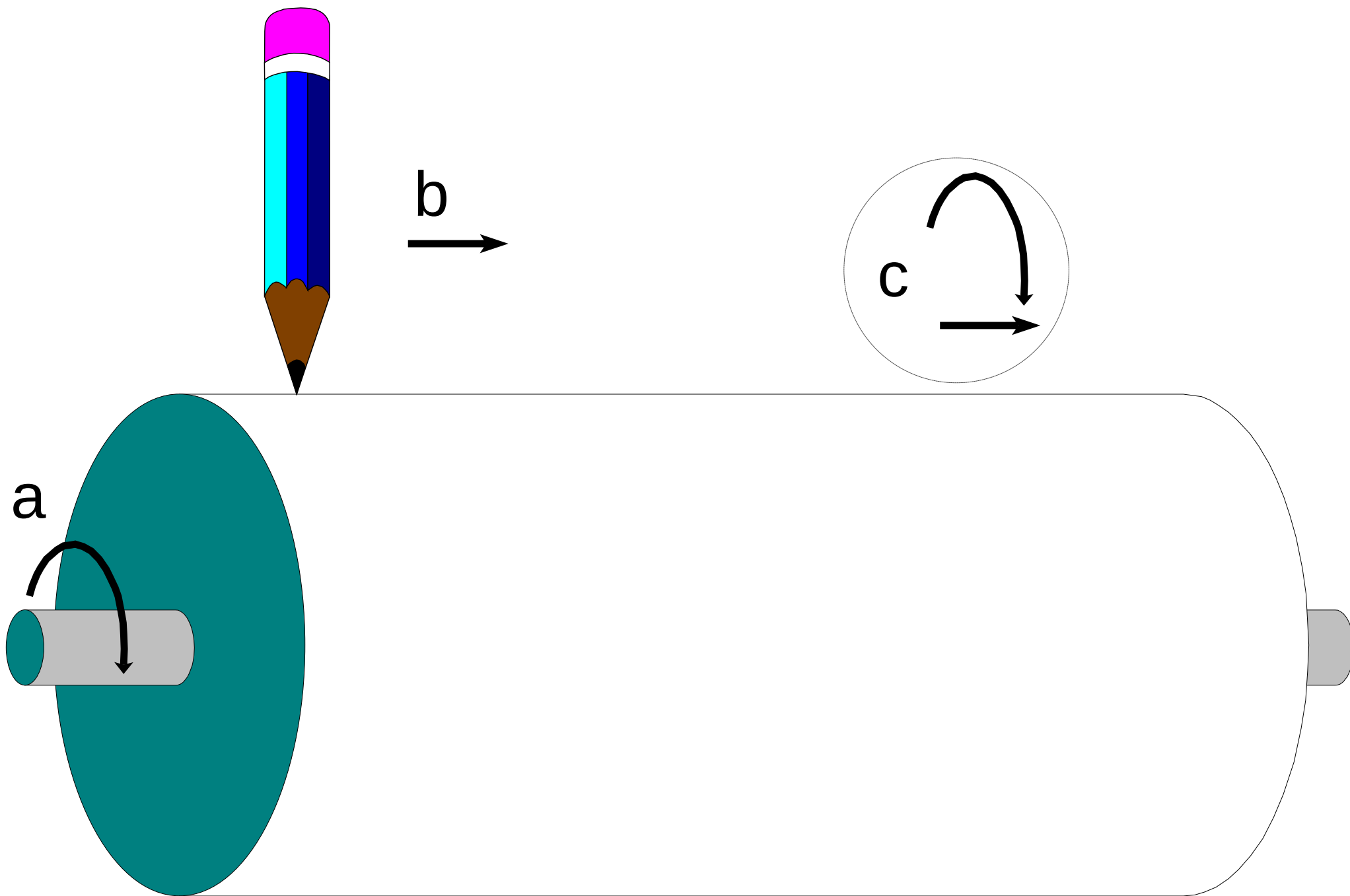
¿Qué móvil es más rápido?

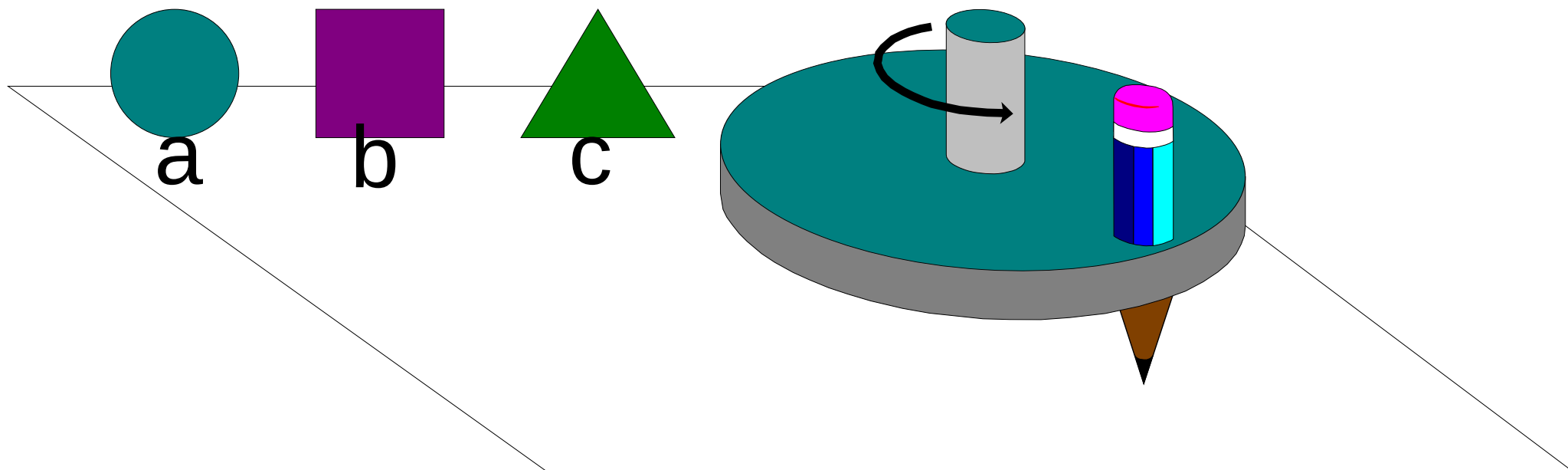


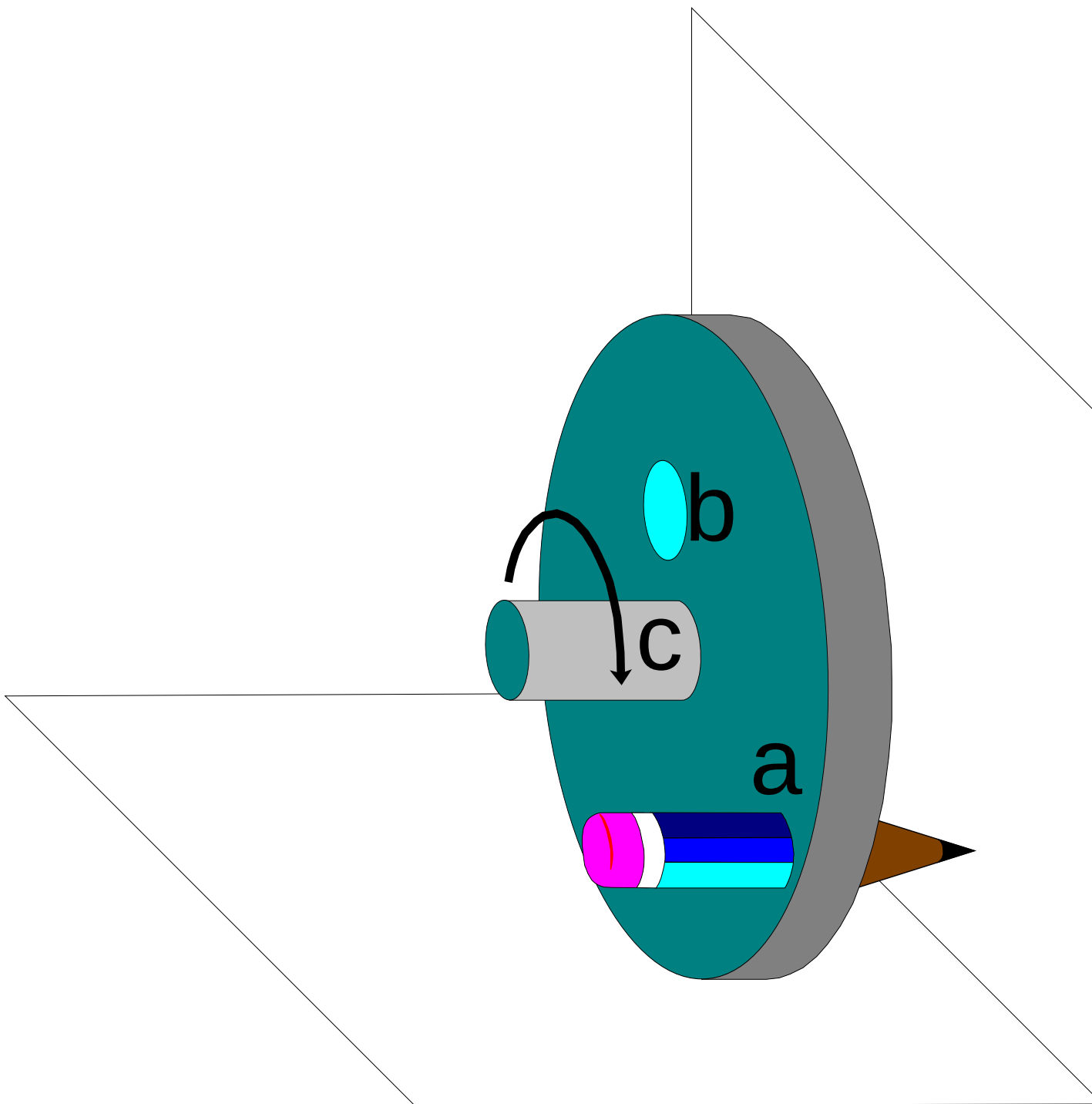


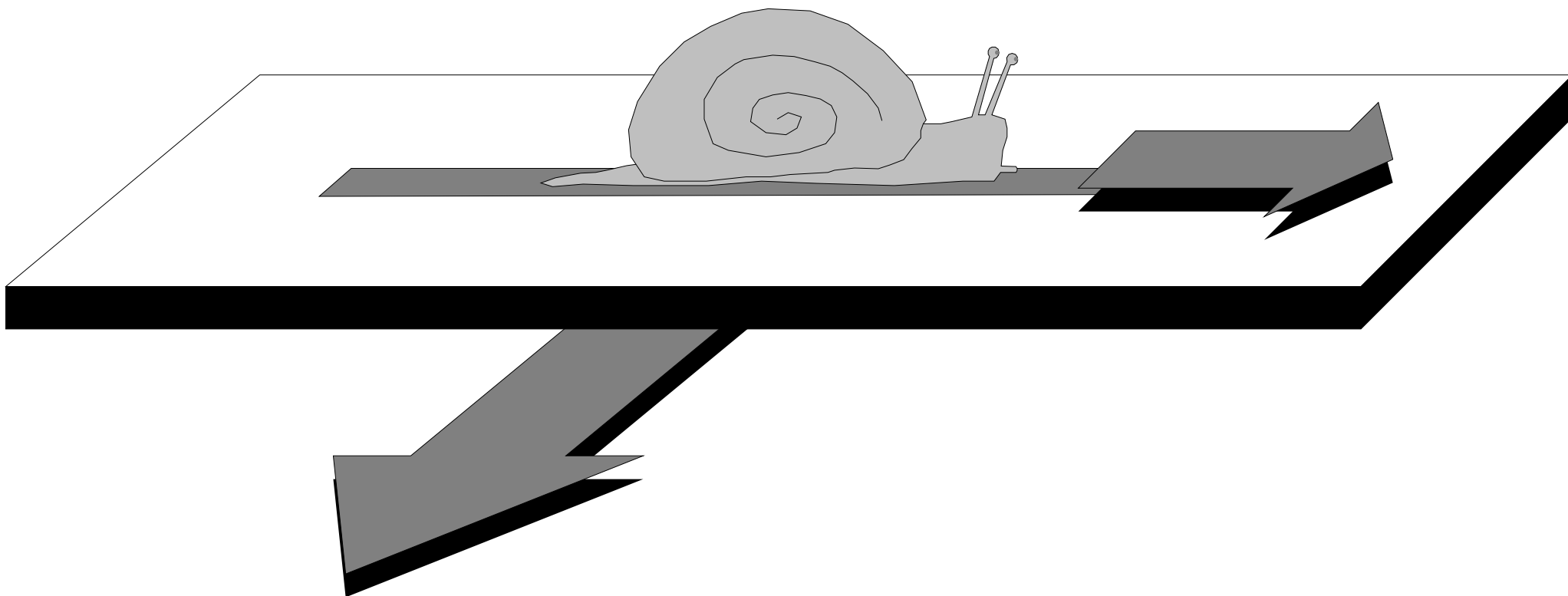
¿En qué tramos la velocidad es mayor?
Tiempo que se tarda en cada tramo
Espacio recorrido en tiempo iguales

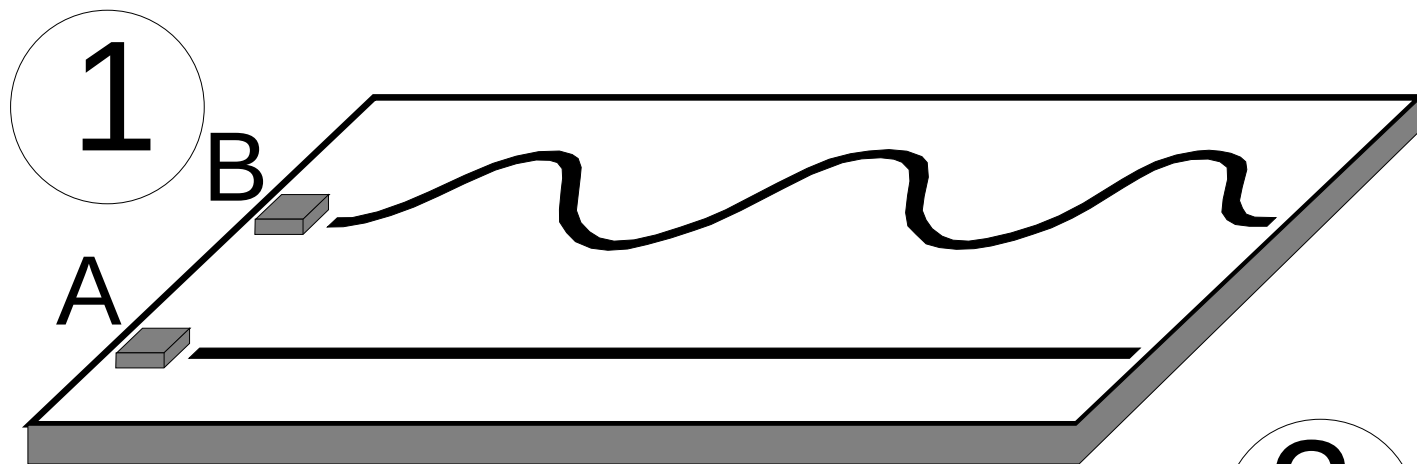




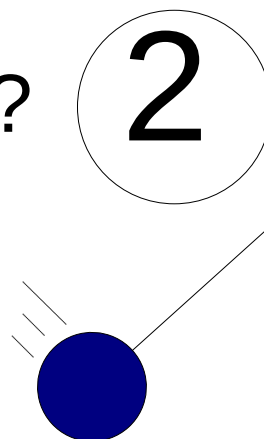




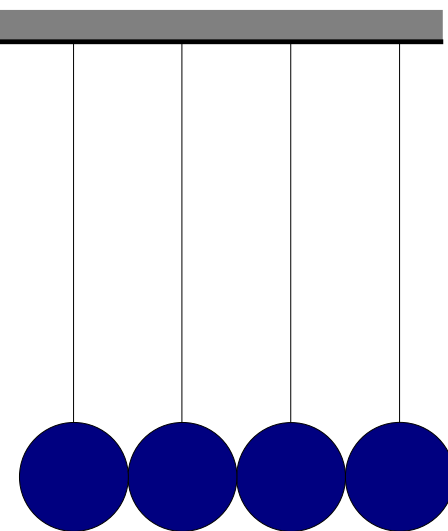




¿Qué caja hace más esfuerzo?
Saliendo y llegando al
mismo tiempo
Lastrando la caja A
A llega al final a empujones
y de un golpe



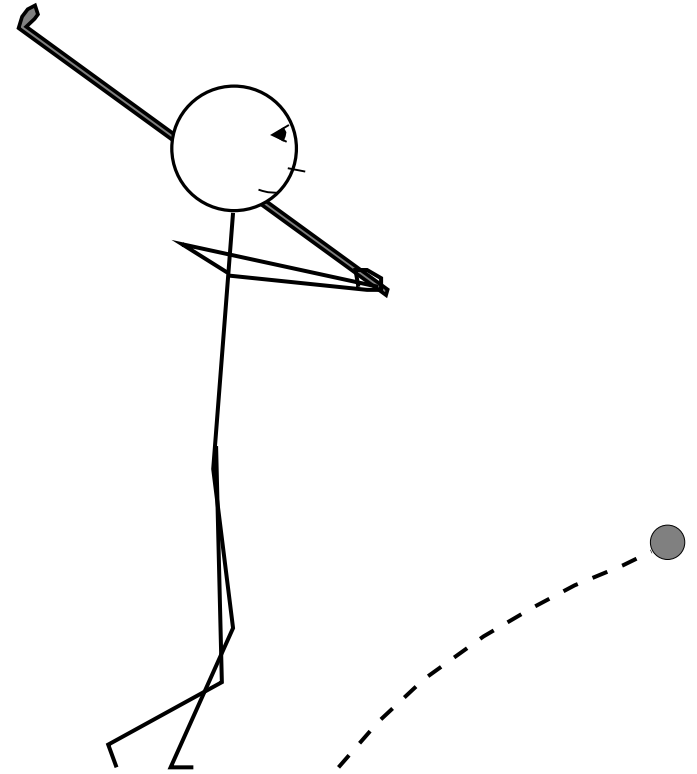
Previsiones
soltando una,
dos, tres,...
bolas



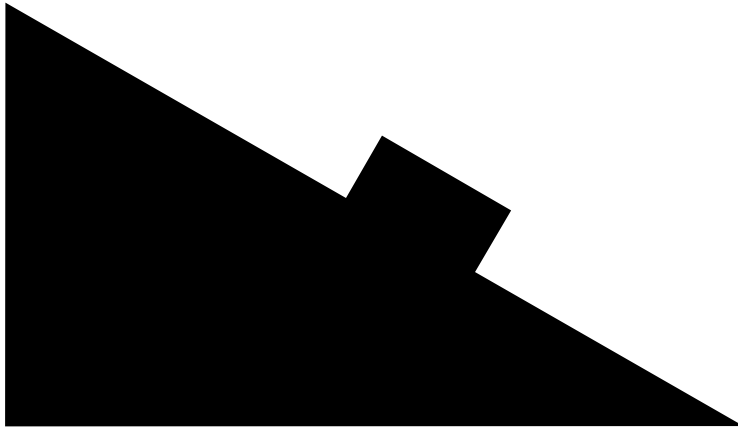
1



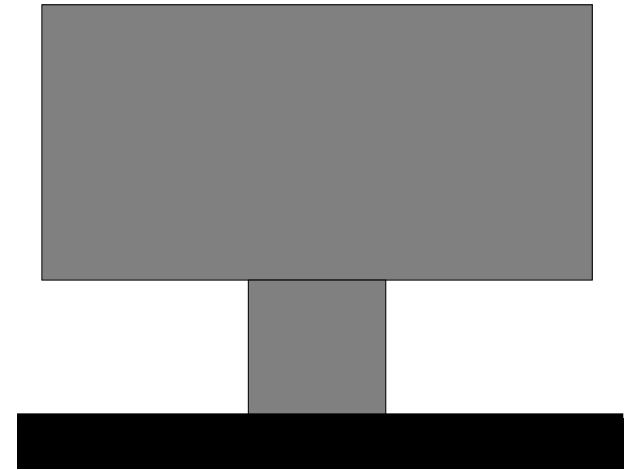
2



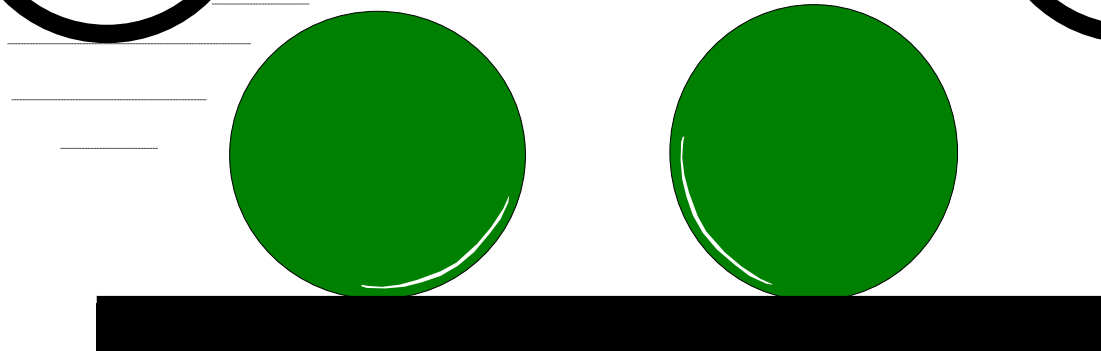
3



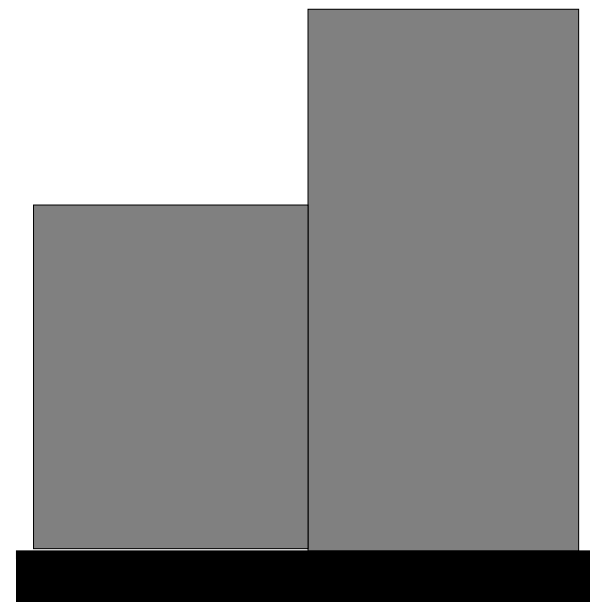
4



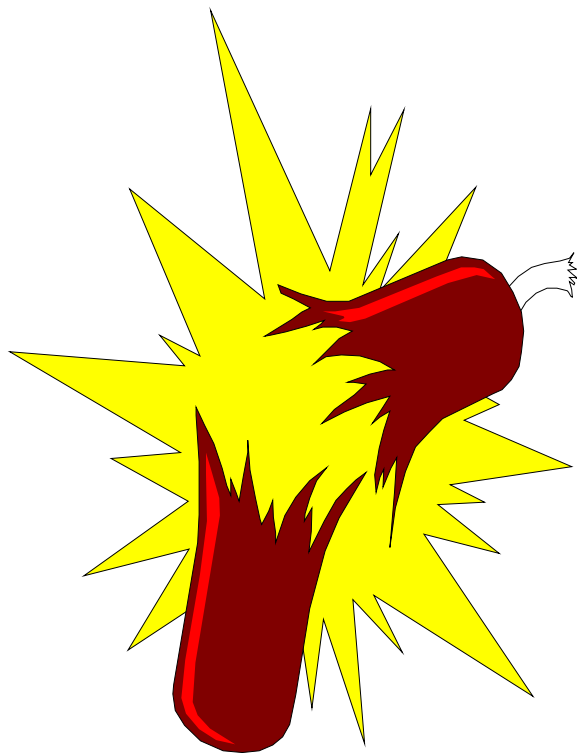
1



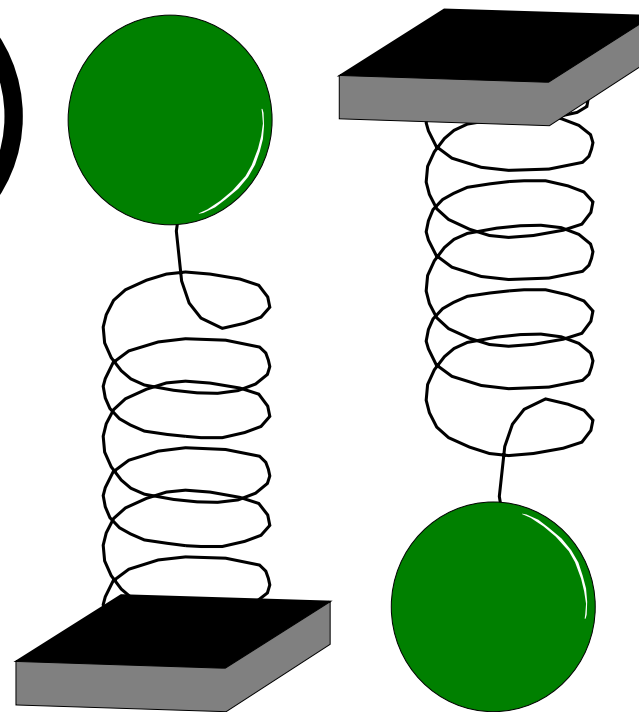
2



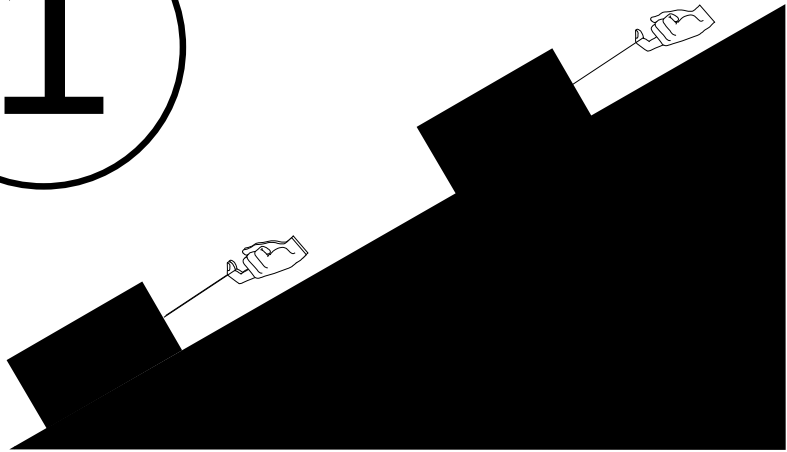
3



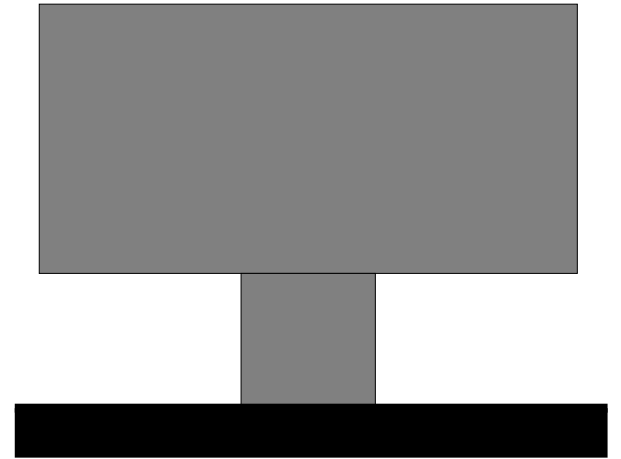
4



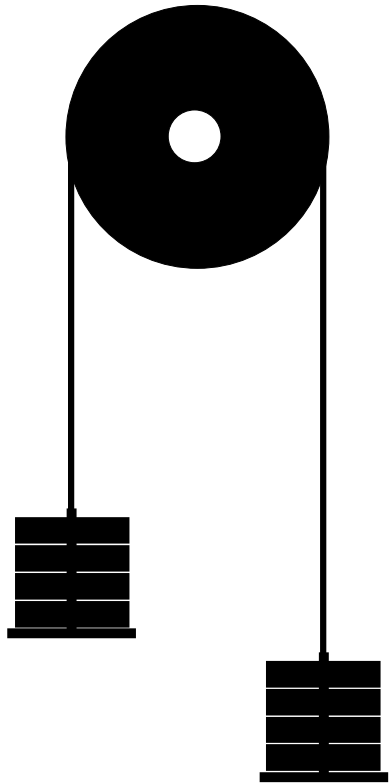
1



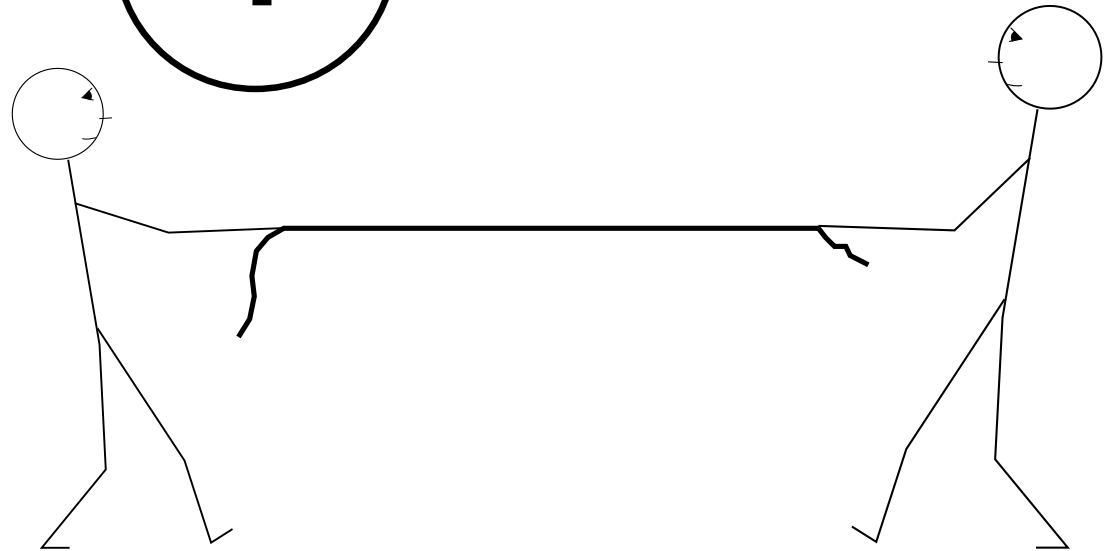
2

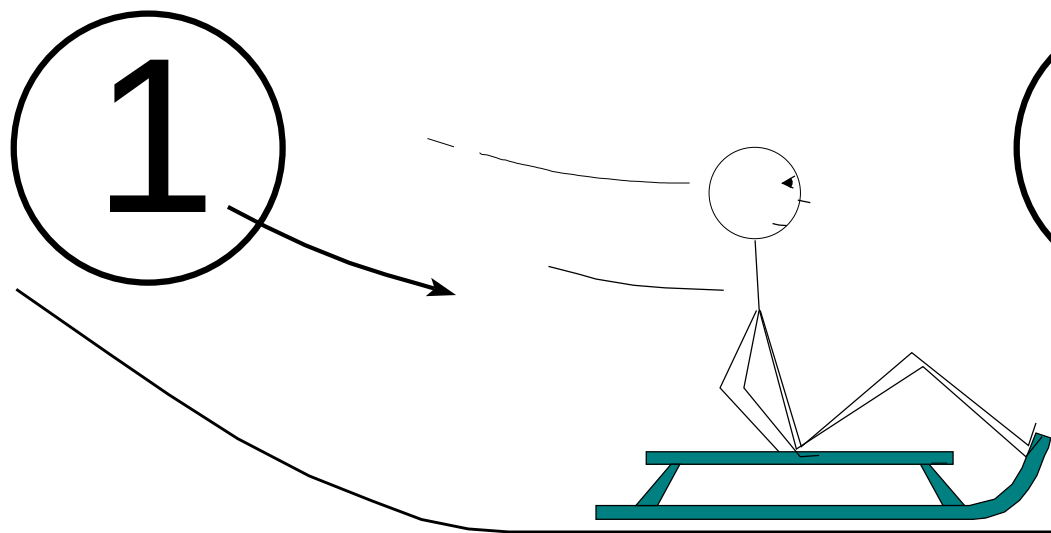


3

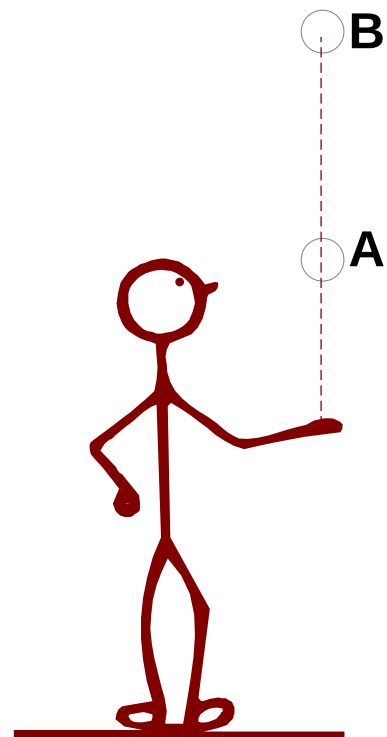


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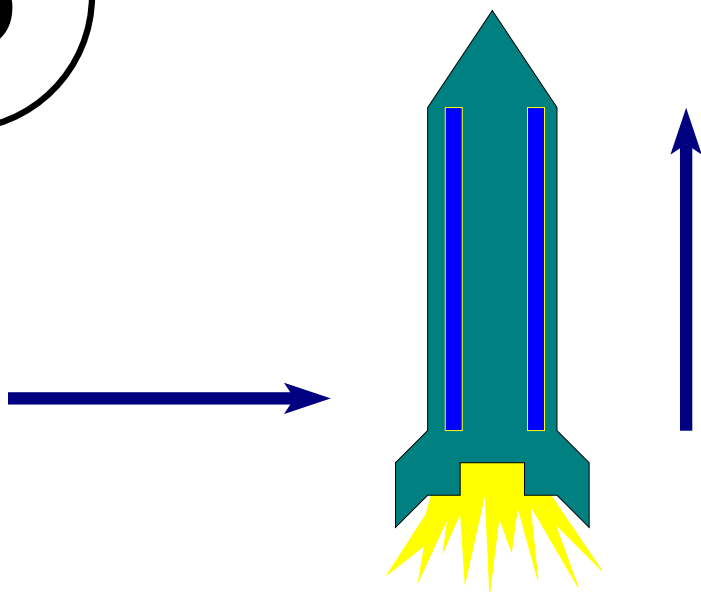




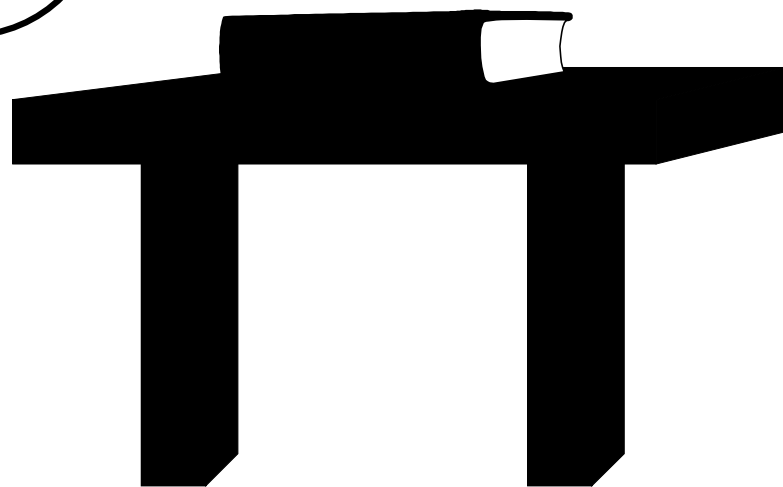
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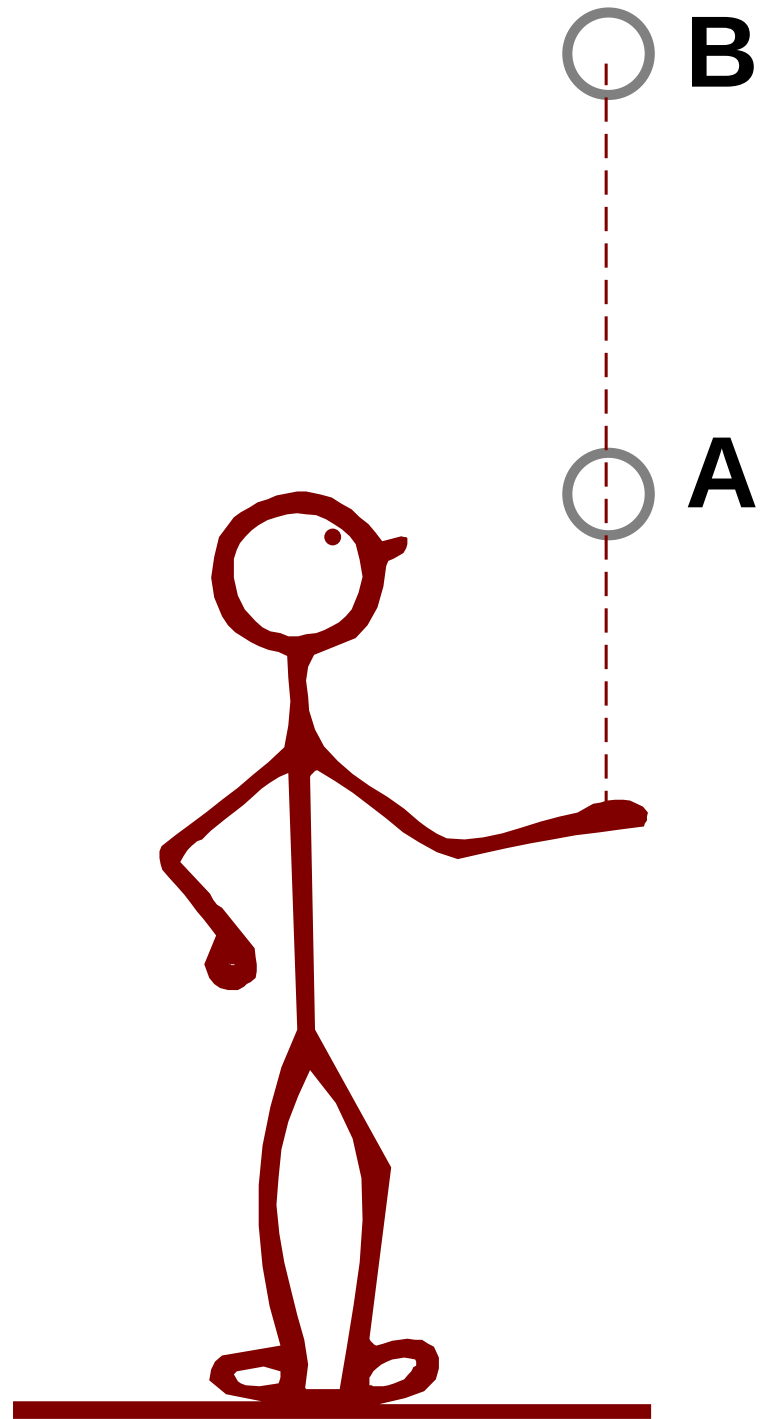


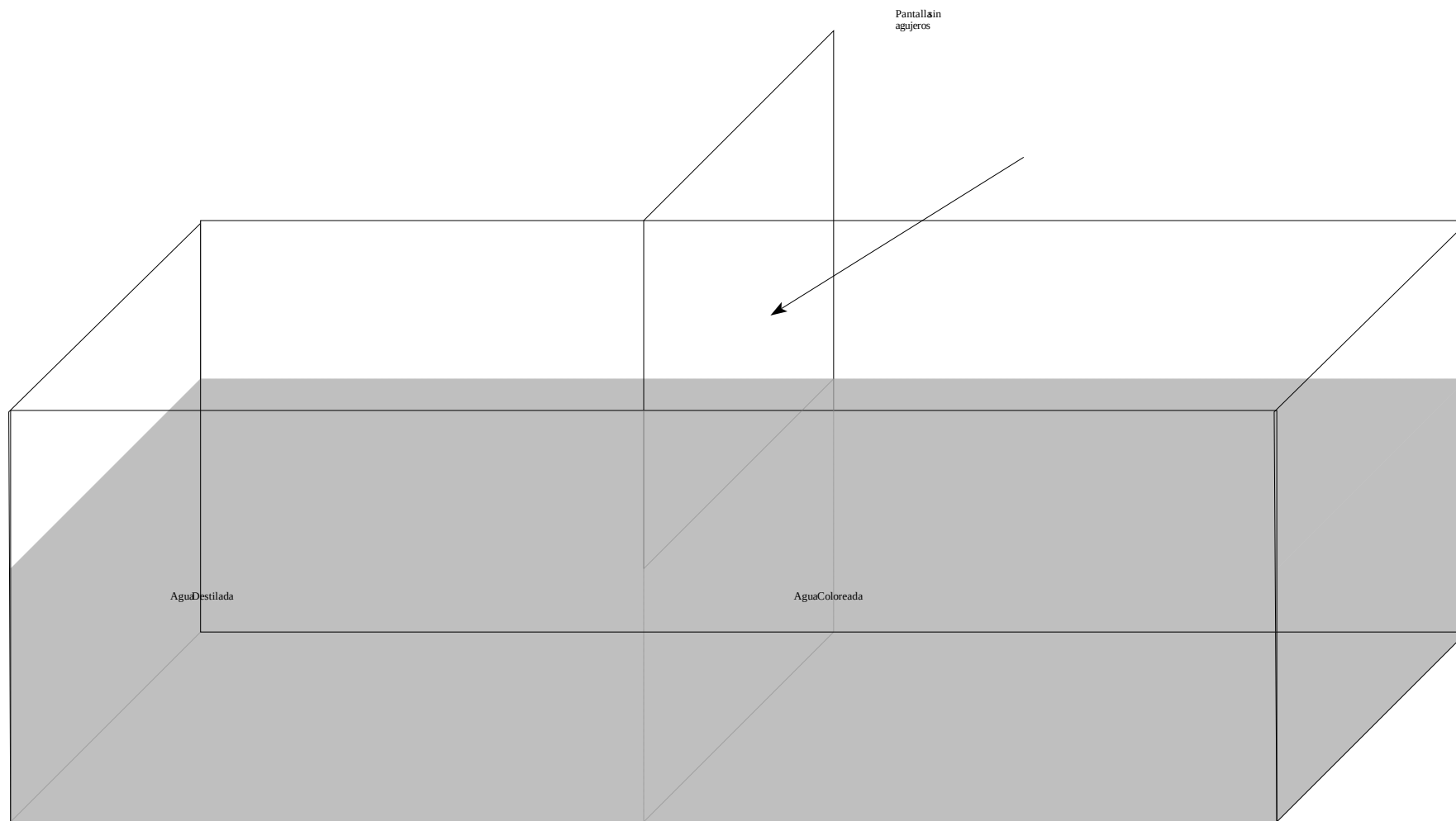
3

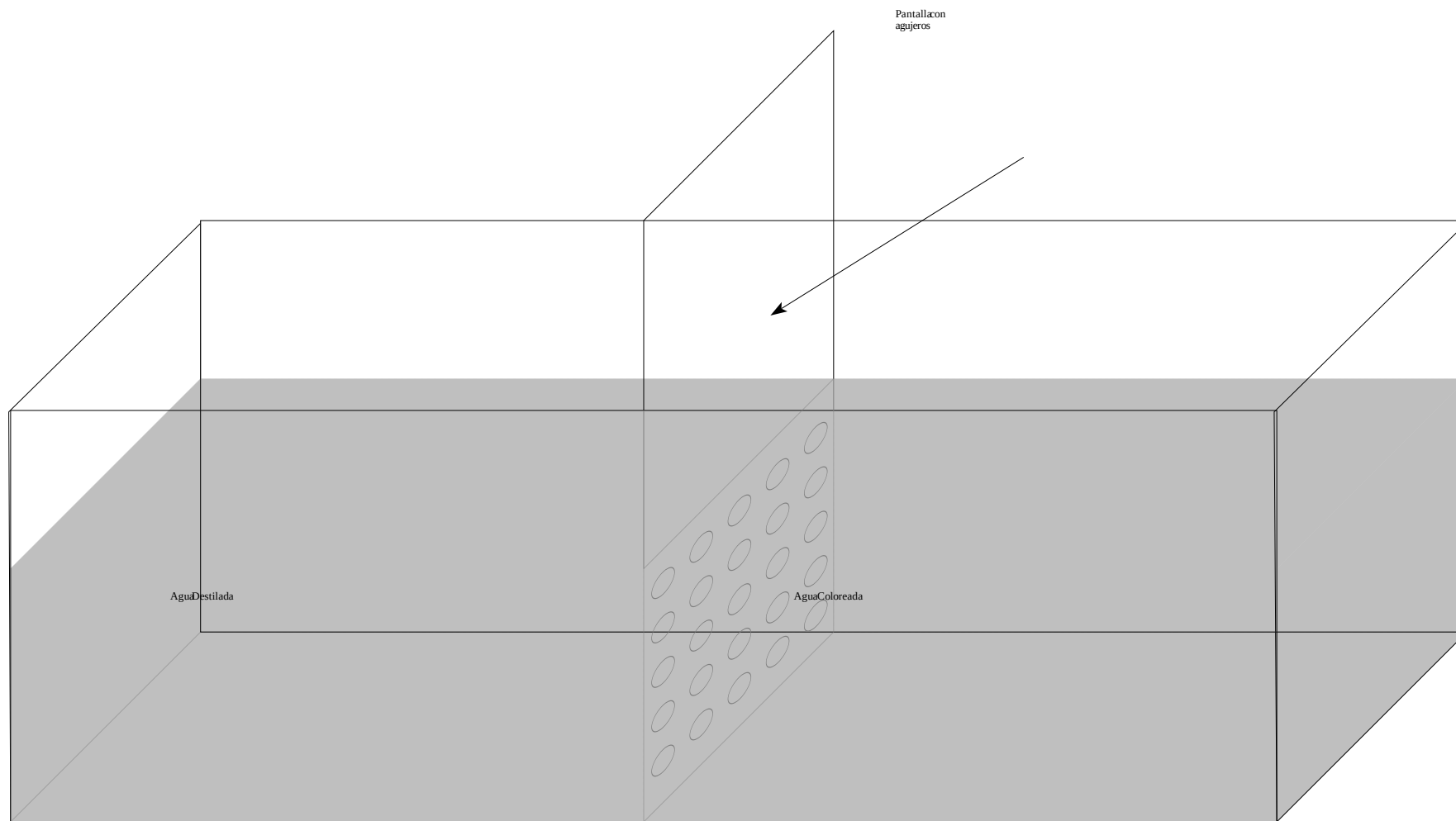


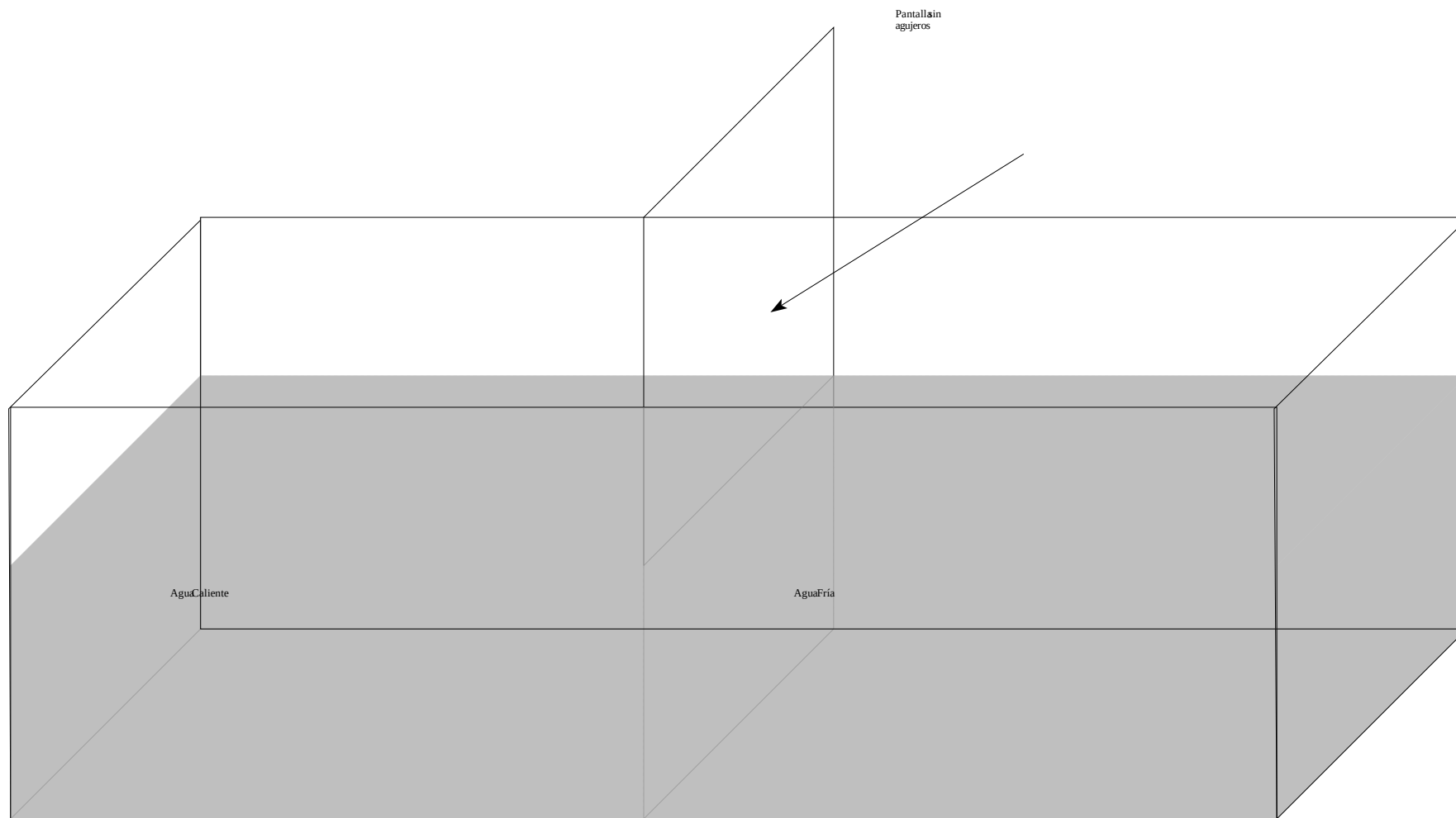
4

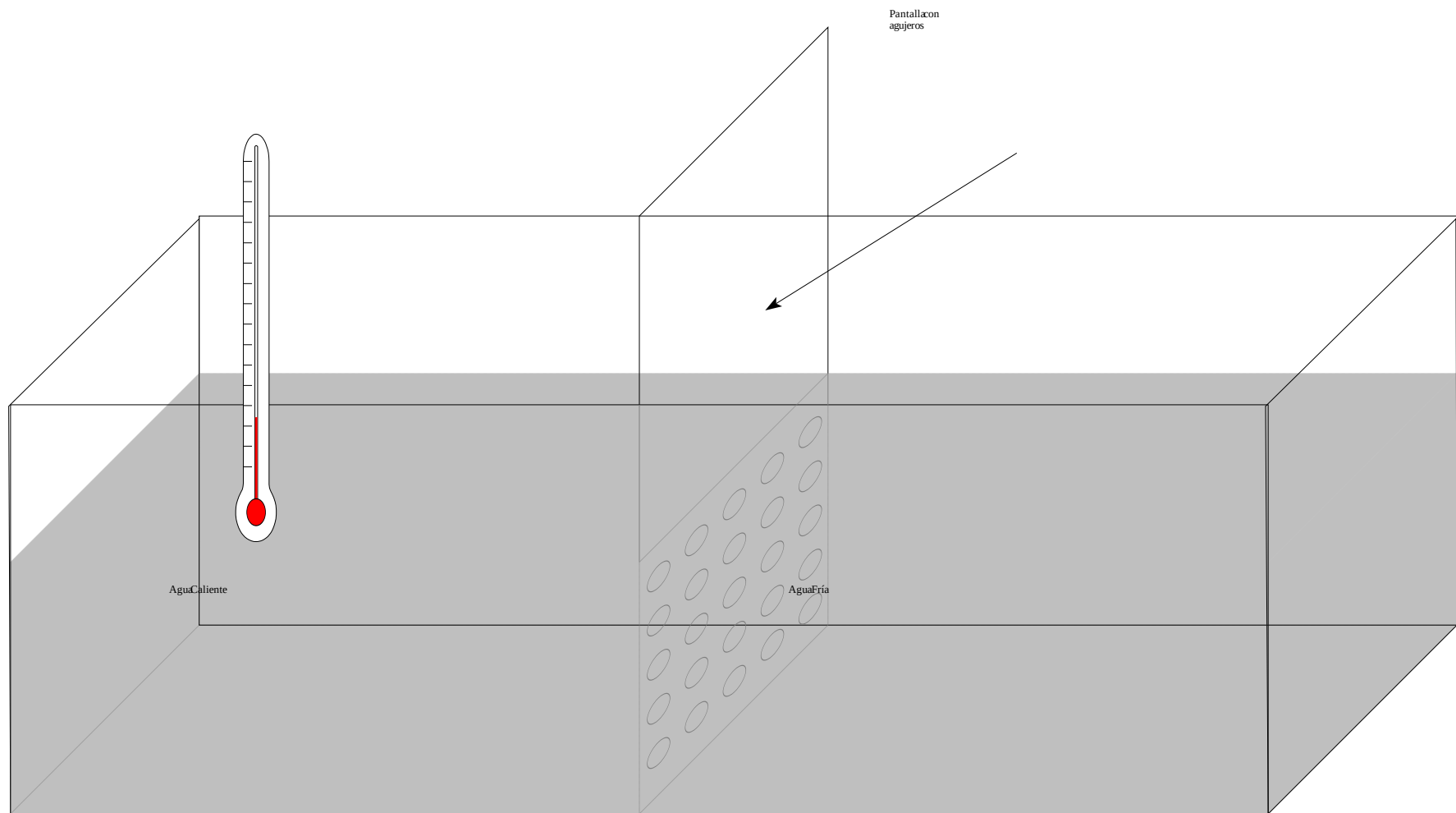


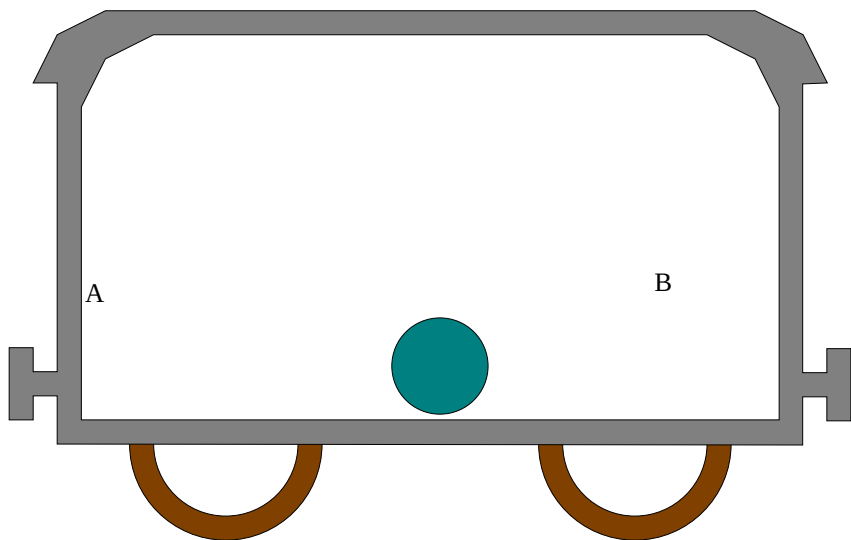
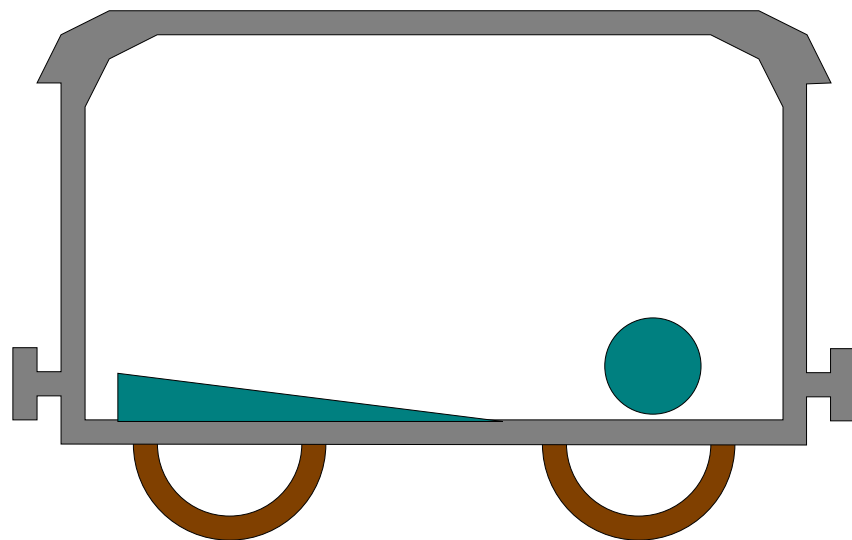
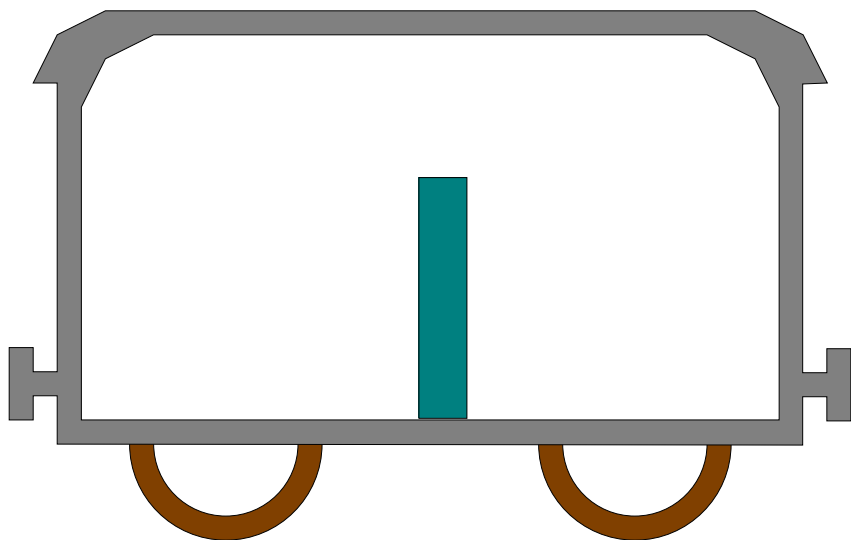
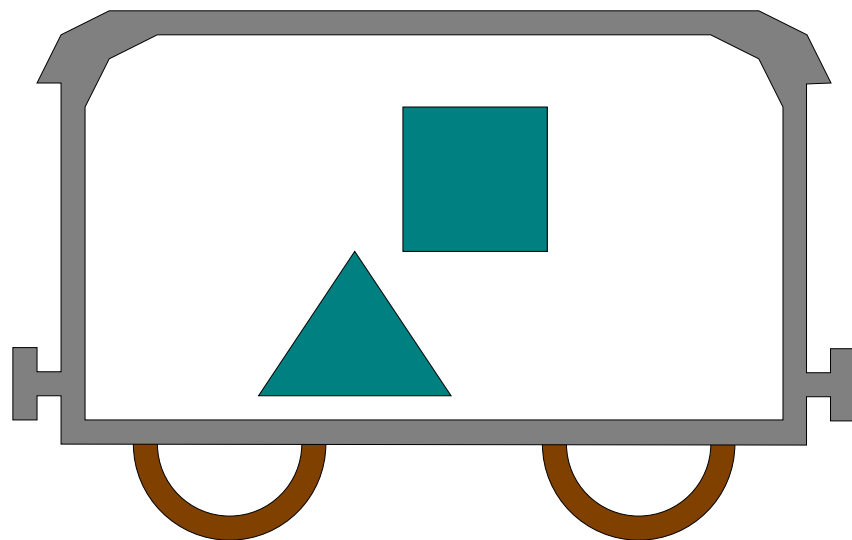


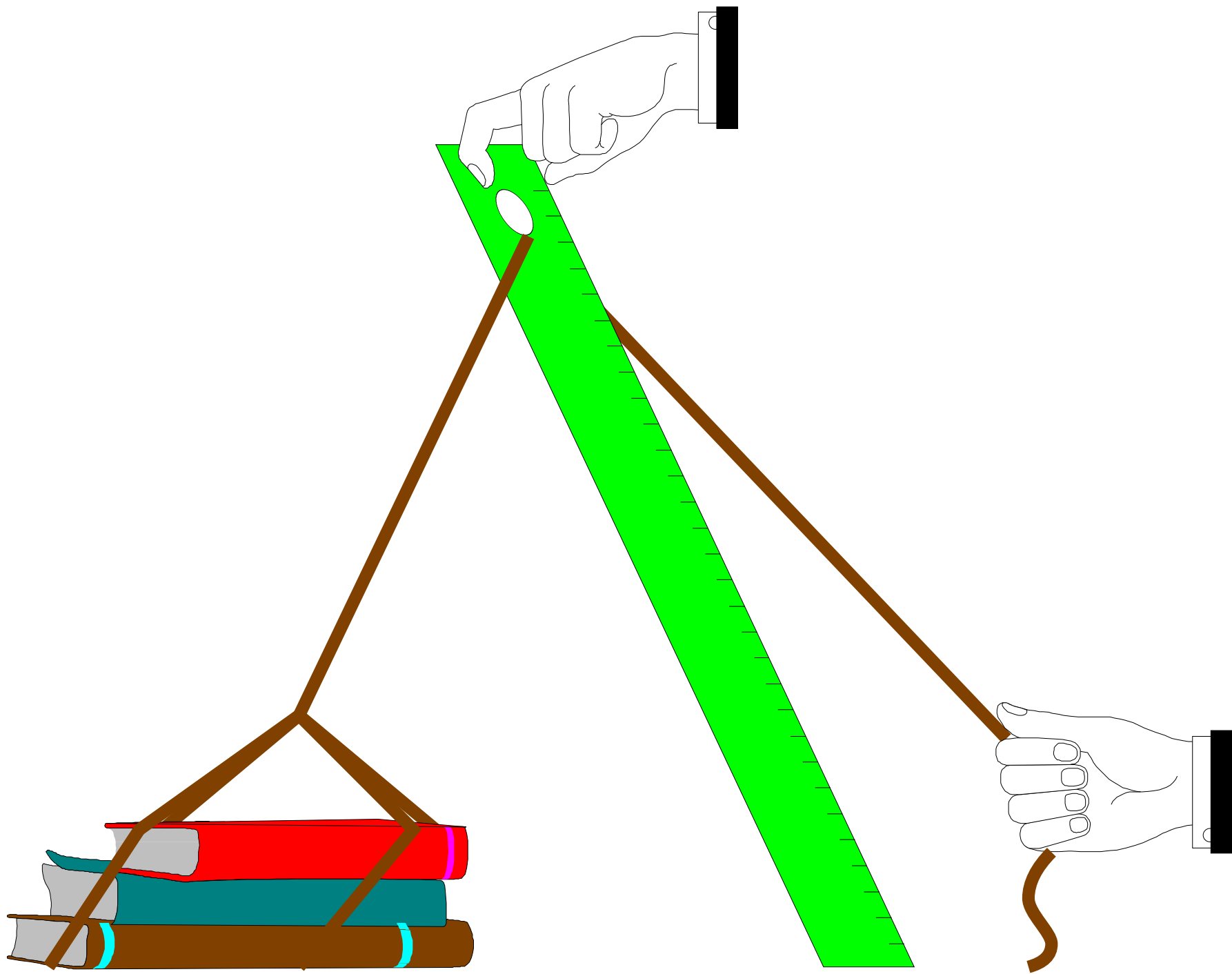


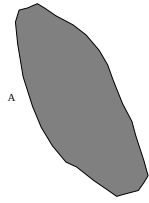
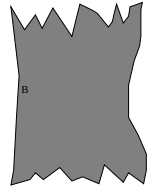
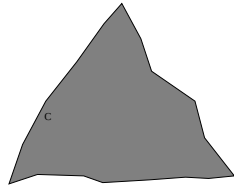
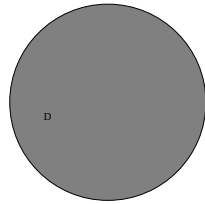
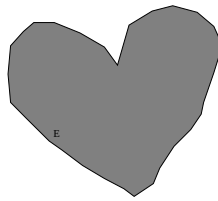
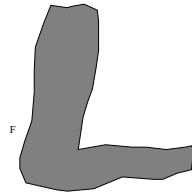
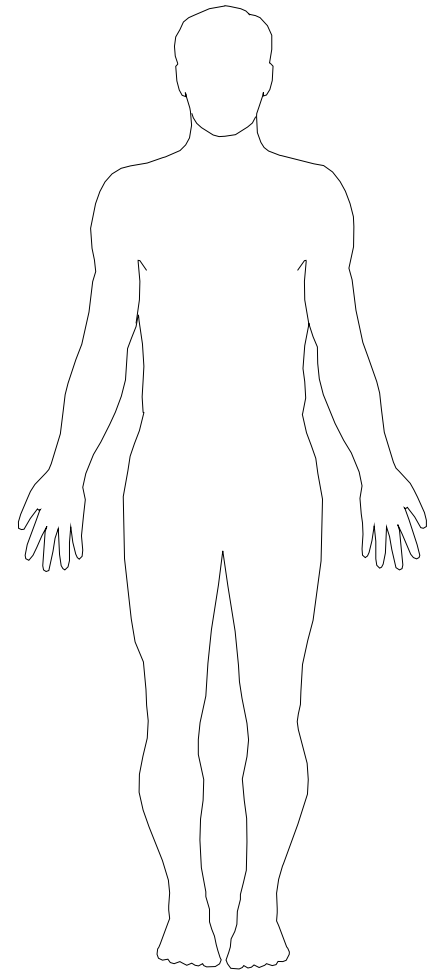








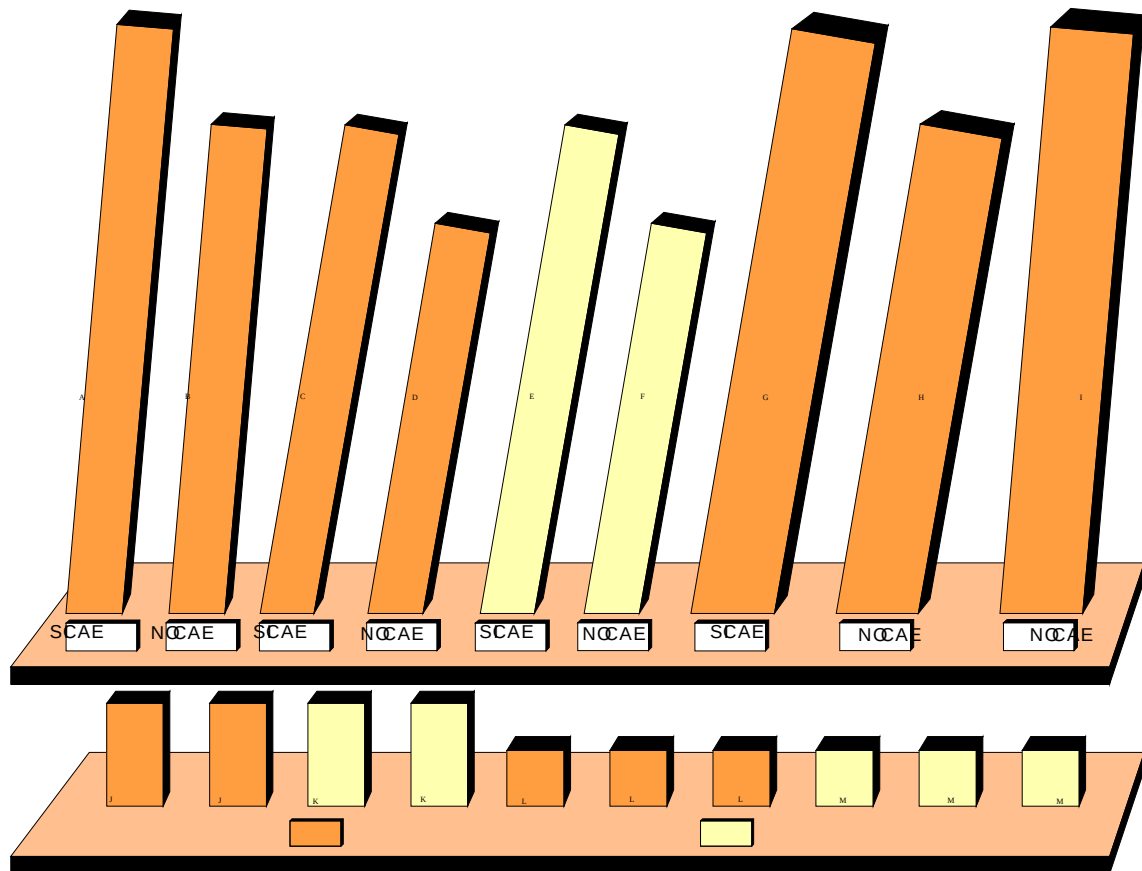
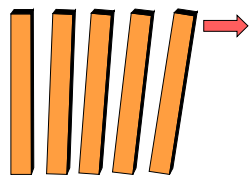




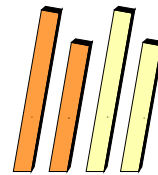
¿Muestran algo sobre la influencia de la longitud?

¿Qué nos muestran sobre el efecto de la longitud en la caída?

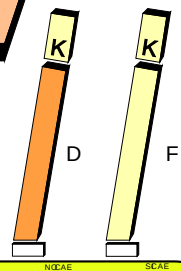
¿Qué nos muestran sobre el efecto del material en la caída?



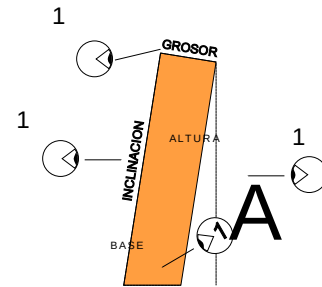
¿En qué momento cae y bloquea que se inclina un poco?



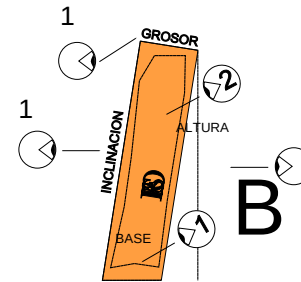
¿Cae en, pero DyF no? ¿por qué no influye el material?



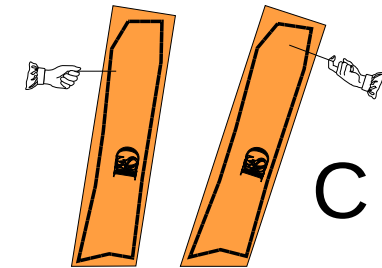
¿DyF no cae? ¿por qué sólo cae Fal aña dk?



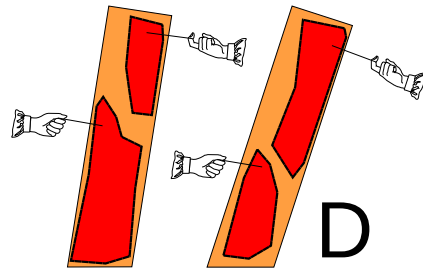
Se utiliza referencias figurativas, como que es imposible crear un cierto orden en los datos que se presentan



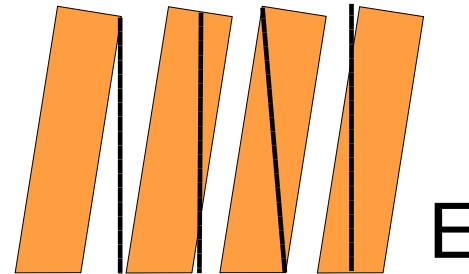
Además de referencias figurativas se evocan divisiones creativas, como el orden en los datos que se presentan



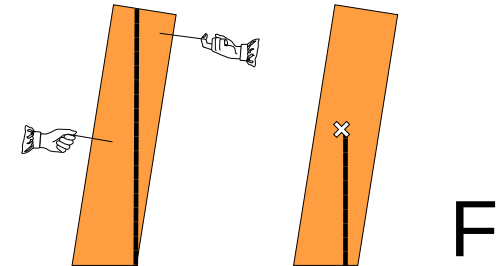
No se hace espacio por las divisiones creativas, se sujeta según efectos. Además se hacen referencias figurativas.



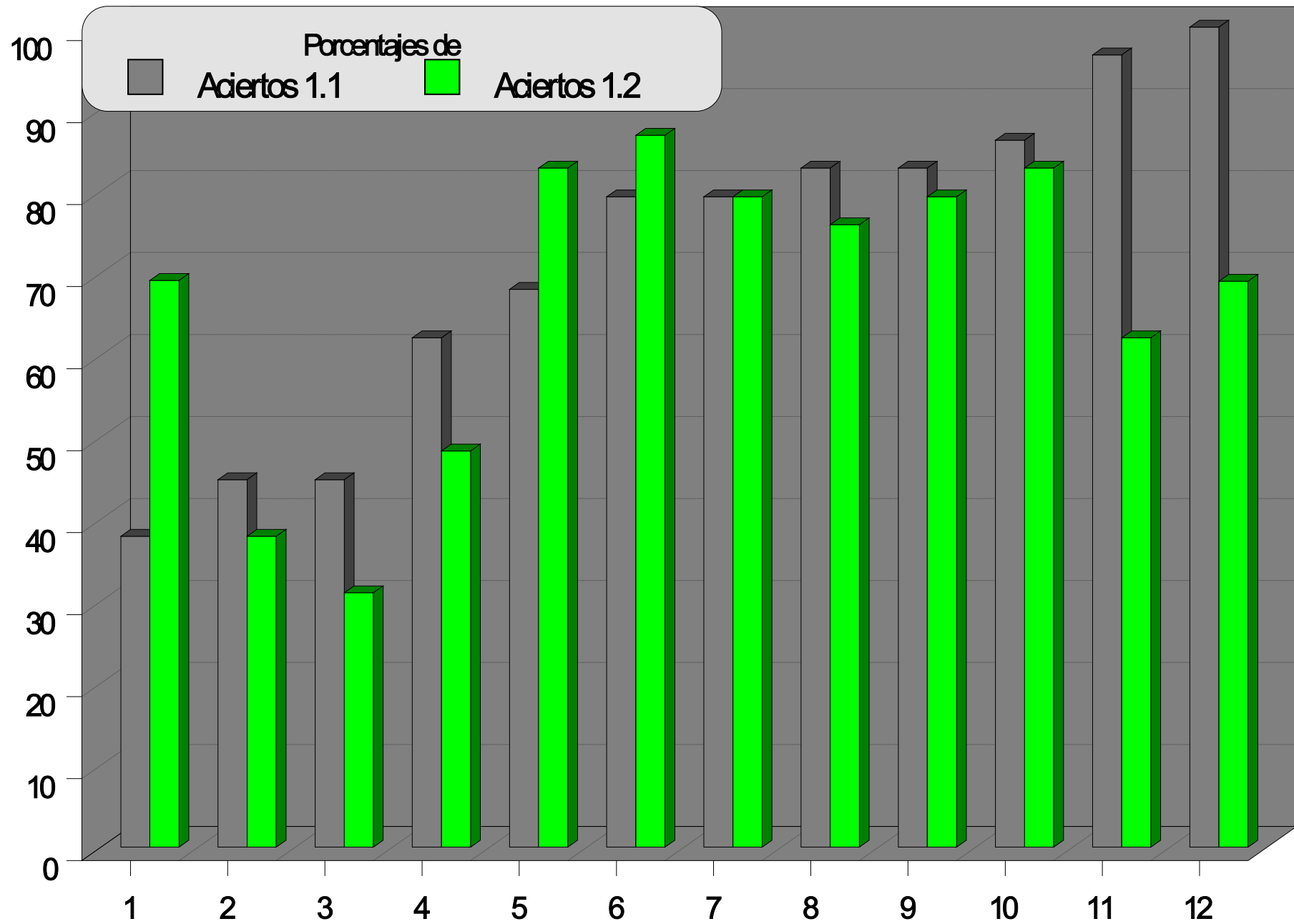
Se divide el bloque con una línea vertical, poco adecuada, las porciones de peso se la asignación dinámica

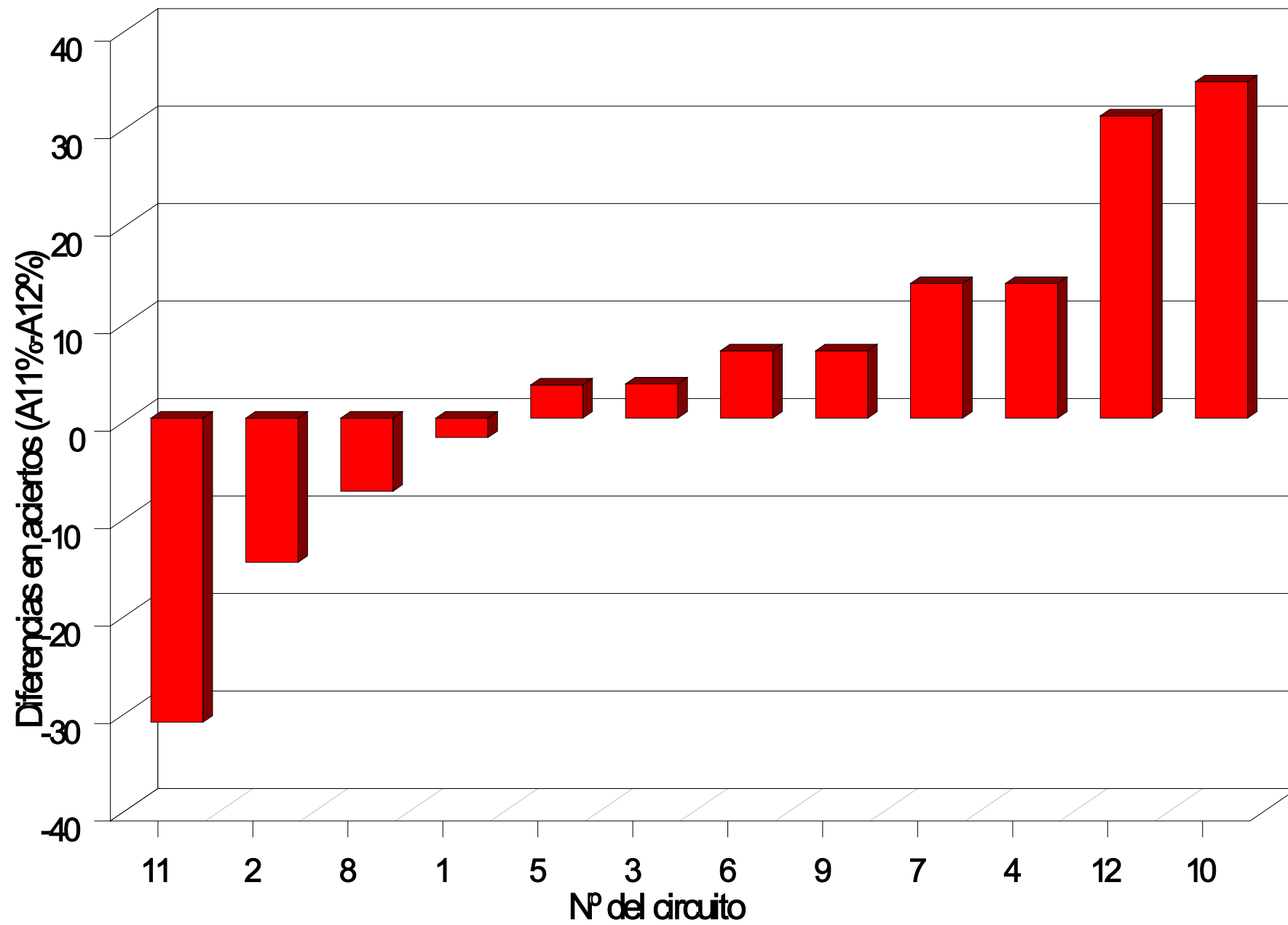


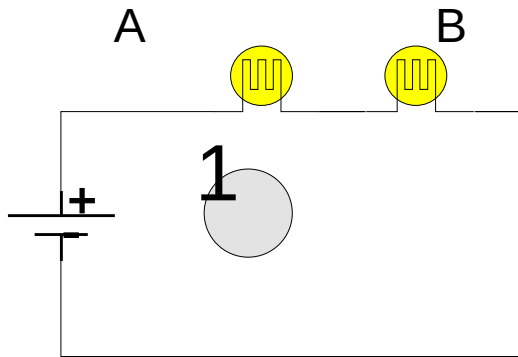
Se divide el peso en porciones según una línea vertical adecuada, que tira y otras que sujetan



Se diferencia la porción de peso que tira de la que sujeta, pero el límite entre una y otra es bastante difuso







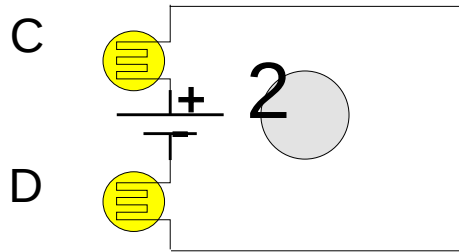
Si las bombillas
son iguales, lucirán
igual?

S
N
No sé

Si se eligió "no",
dibujá el brillo de cada
bombilla con más
menos o al ejemplo:



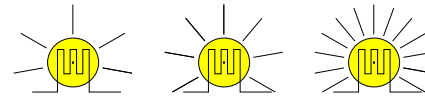
¿Por qué?



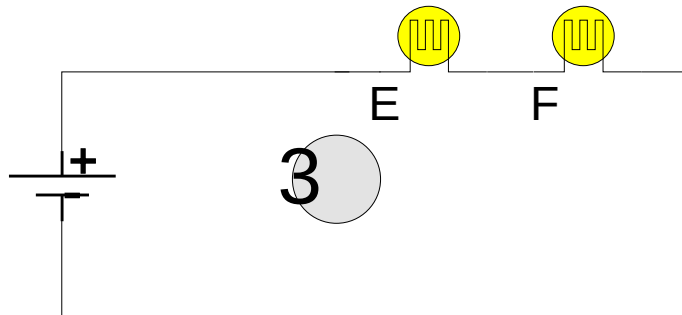
Si las bombillas
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S
N
No sé

Si se eligió "no",
dibujá el brillo de cada
bombilla con más
menos o al ejemplo:



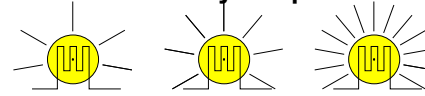
¿Por qué?



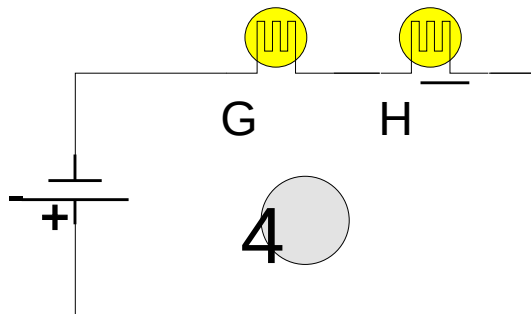
Si las bombillas
son iguales, lucirán
igual?

S
N
No sé

Si se eligió "no",
dibujá el brillo de cada
bombilla con más
menos o al ejemplo:



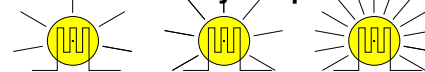
¿Por qué?



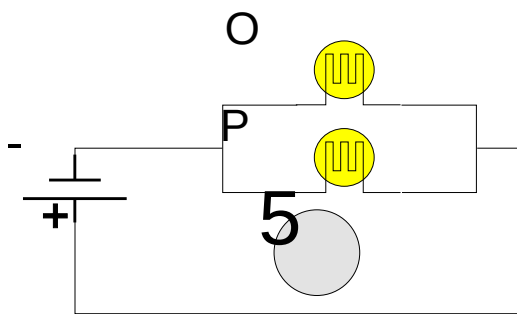
Si las bombillas
son iguales, lucirán
igual?

S
N
No sé

Si se eligió "no",
dibujá el brillo de cada
bombilla con más
menos o al ejemplo:



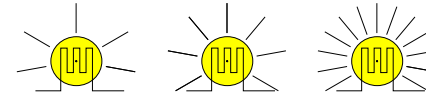
¿Por qué?



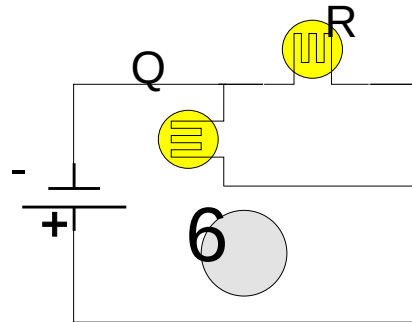
Si todas las bombillas
son iguales, ¿lucirán
igual?:

S
N
No sé

Si se eligió "no",
dibujá el brillo de cada
bombilla como más
menor sea el ejemplo:



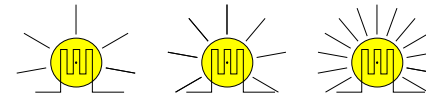
¿Por qué?



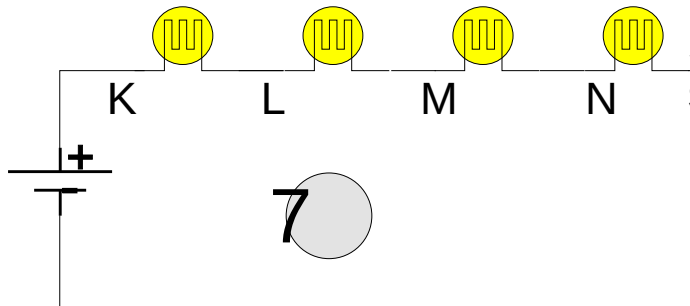
Si todas las bombillas
son iguales, ¿lucirán
igual?:

S
N
No sé

Si se eligió "no",
dibujá el brillo de cada
bombilla como más
menor sea el ejemplo:



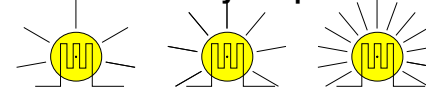
¿Por qué?



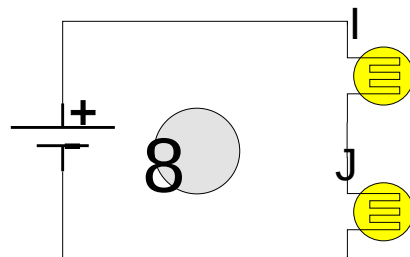
Si todas las bombillas
son iguales, ¿lucirán
igual?:

S
N
No sé

Si se eligió "no",
dibujá el brillo de cada
bombilla como más
menor sea el ejemplo:



¿Por qué?



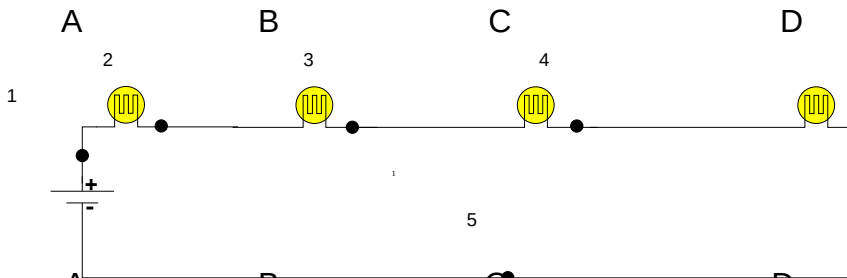
Si todas las bombillas
son iguales, ¿lucirán
igual?:

S
N
No sé

Si se eligió "no",
dibujá el brillo de cada
bombilla como más
menor sea el ejemplo:



¿Por qué?



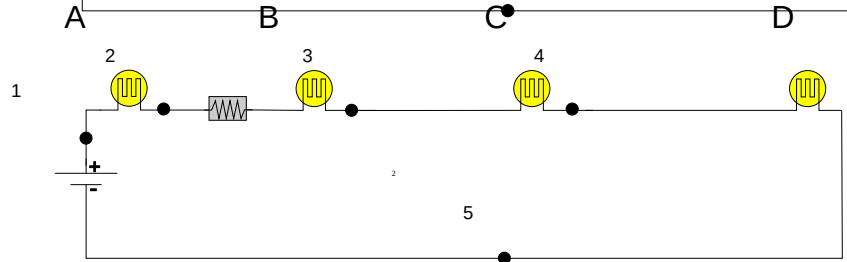
Si todas las bombillas
son iguales, lucirán
igual?:

Sí
No
No sé

Si se le quita una,
dibujá el brillo de cada
bombilla con más
menor o al ejemplo:



¿Por qué?



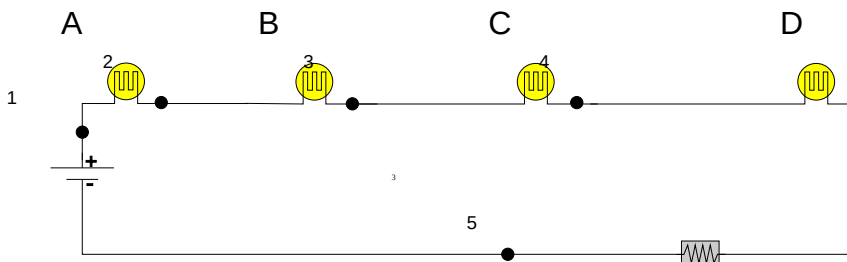
Si todas las bombillas
son iguales, lucirán
igual?:

Sí
No
No sé

Si se le quita una,
dibujá el brillo de cada
bombilla con más
menor o al ejemplo:



¿Por qué?



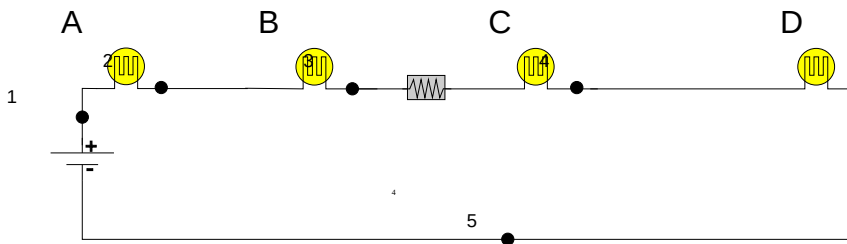
Si todas las bombillas
son iguales, lucirán
igual?:

Sí
No
No sé

Si se le quita una,
dibujá el brillo de cada
bombilla con más
menor o al ejemplo:



¿Por qué?



Si todas las bombillas
son iguales, lucirán
igual?:

Sí
No
No sé

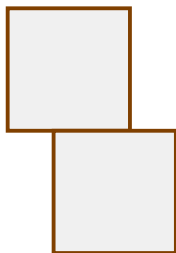
Si se le quita una,
dibujá el brillo de cada
bombilla con más
menor o al ejemplo:



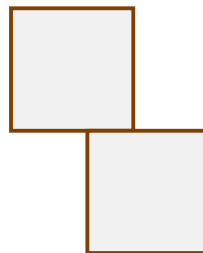
¿Por qué?



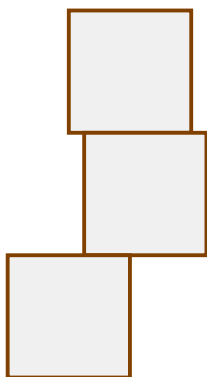
A



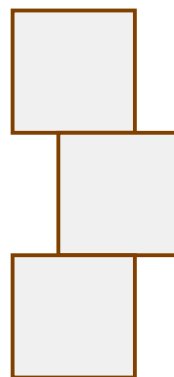
B



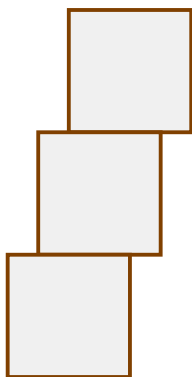
C



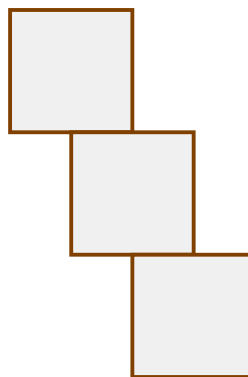
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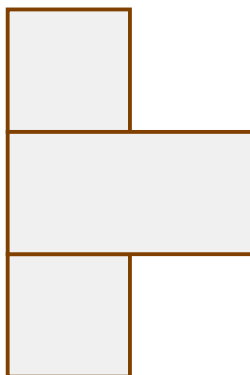


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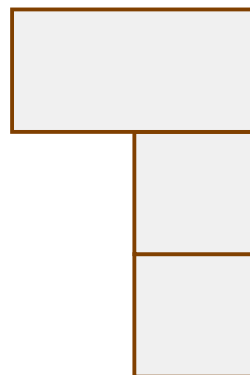




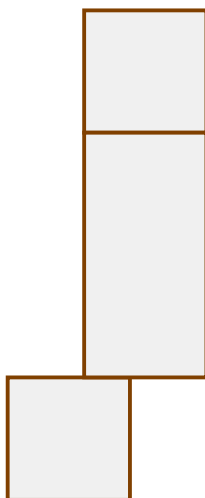
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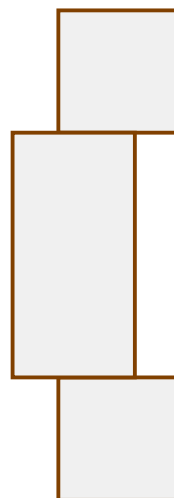
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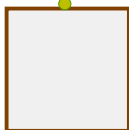


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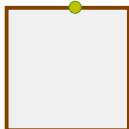
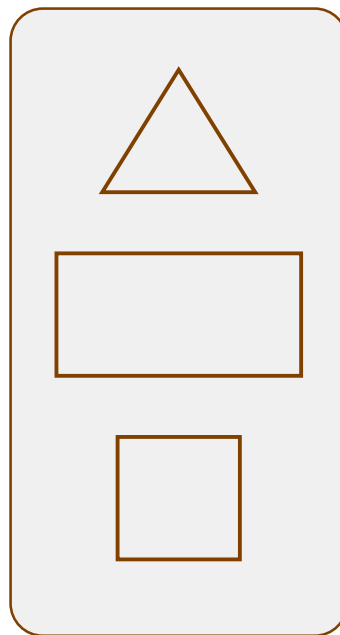
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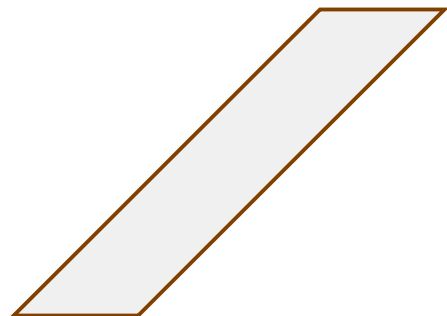


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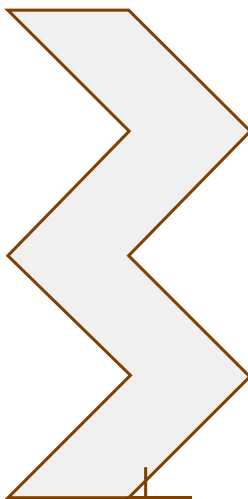
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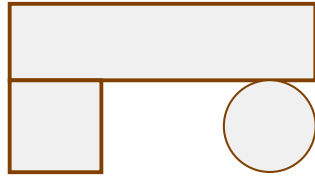
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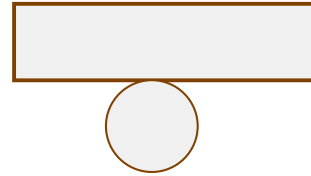


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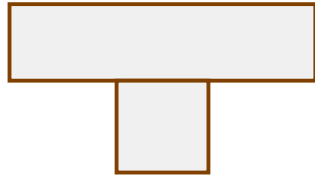
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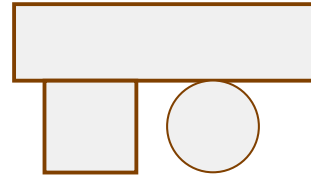
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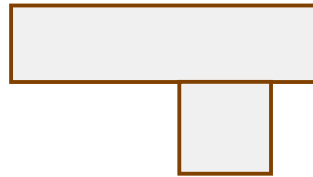
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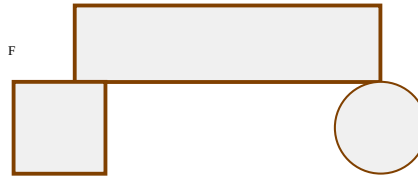
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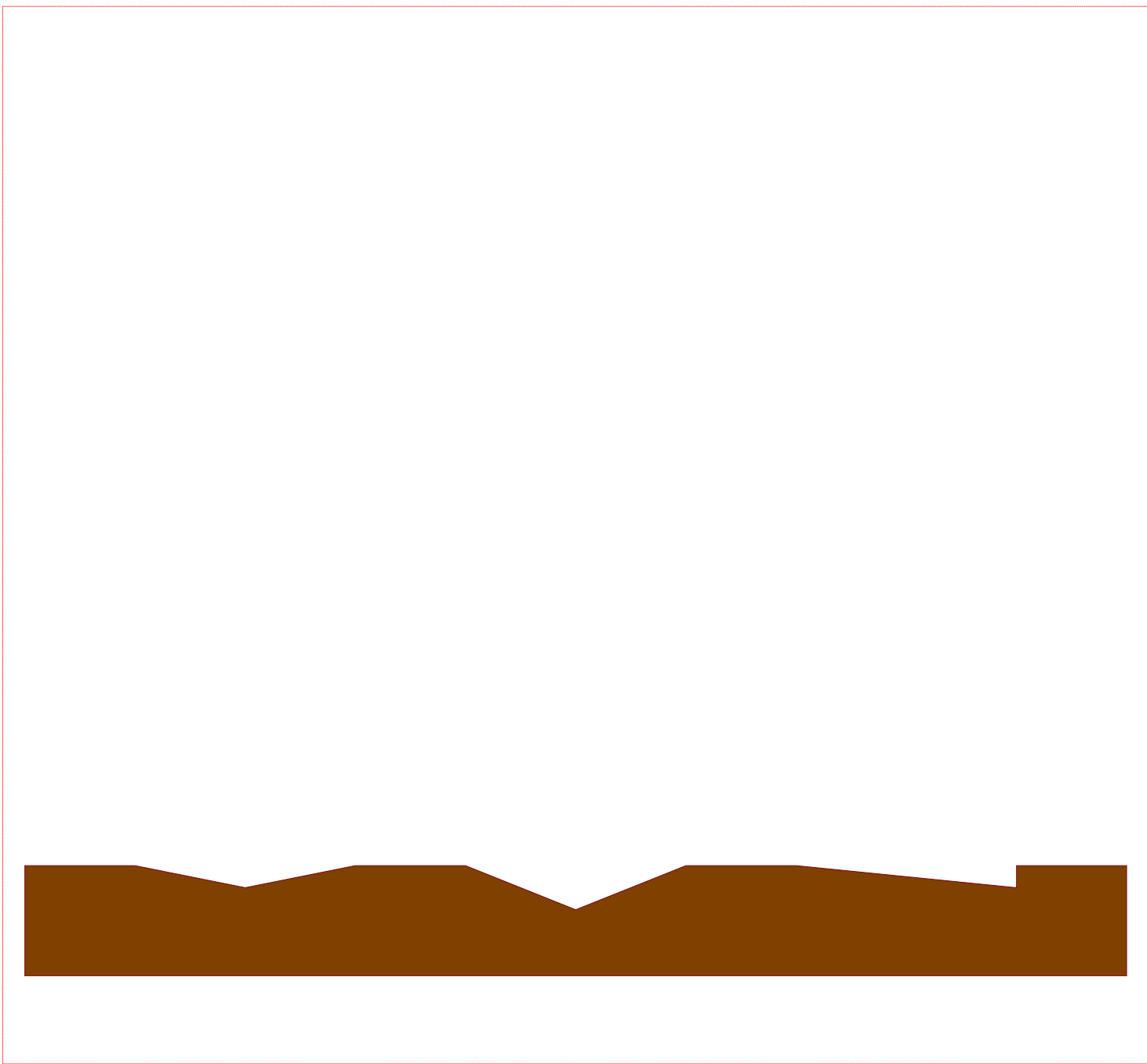


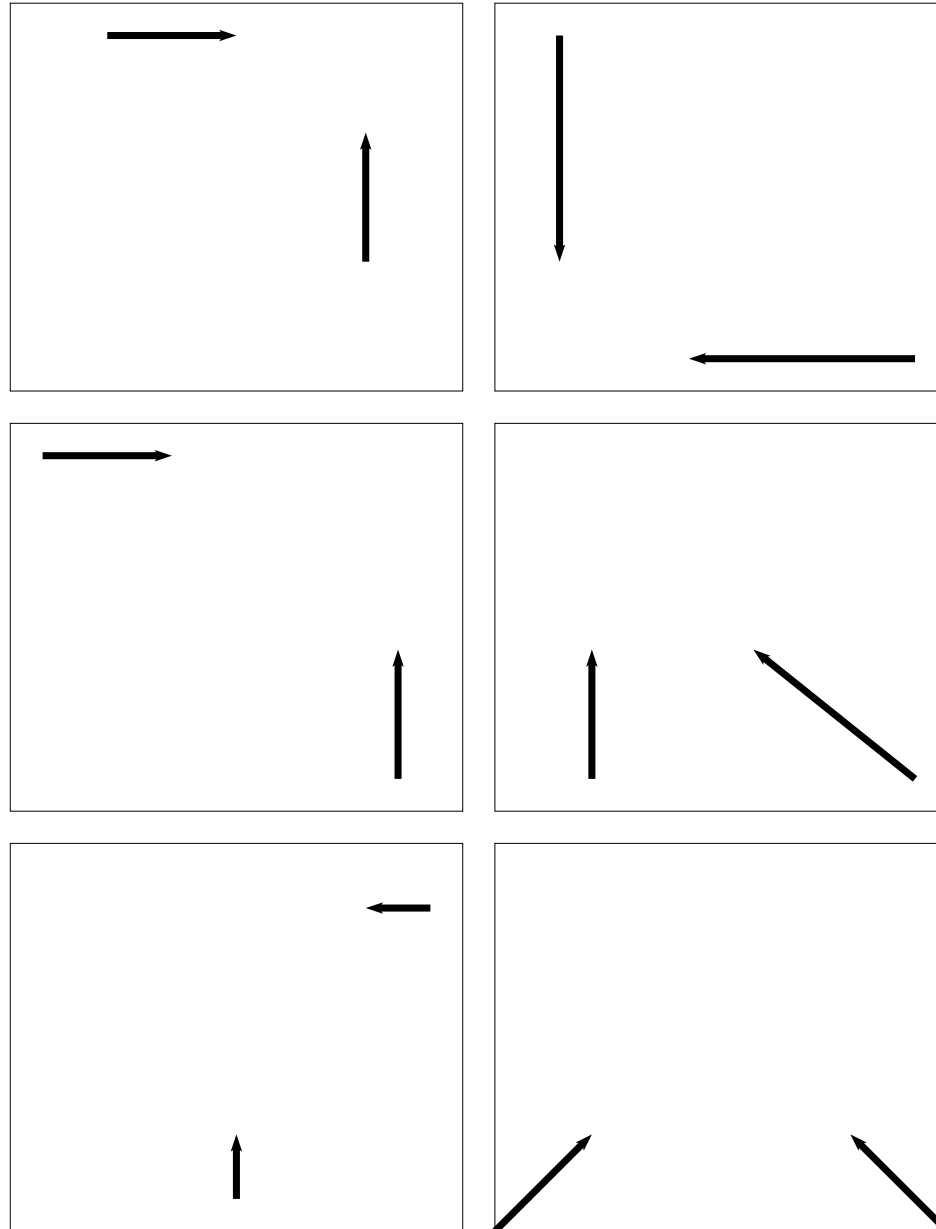
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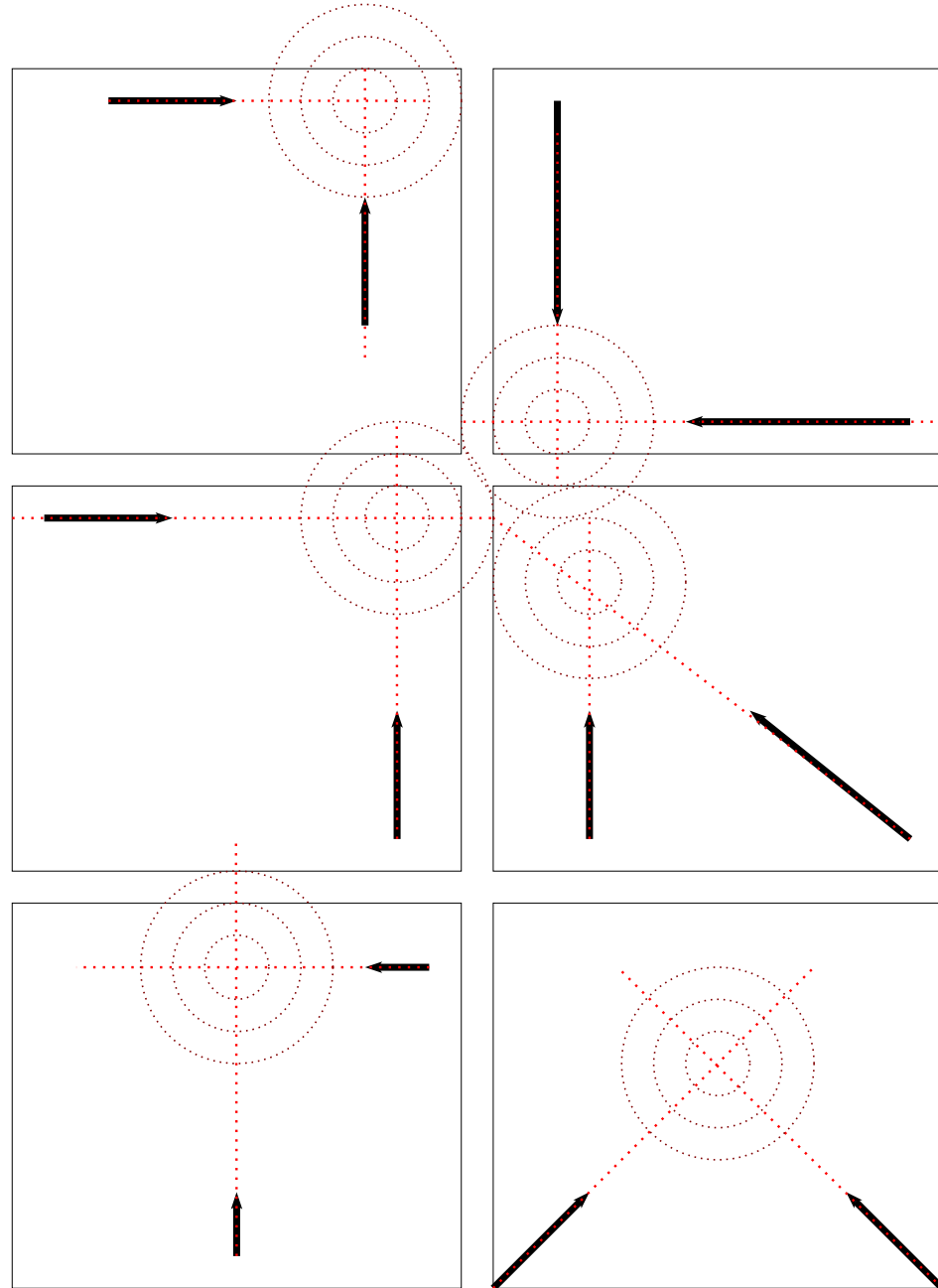


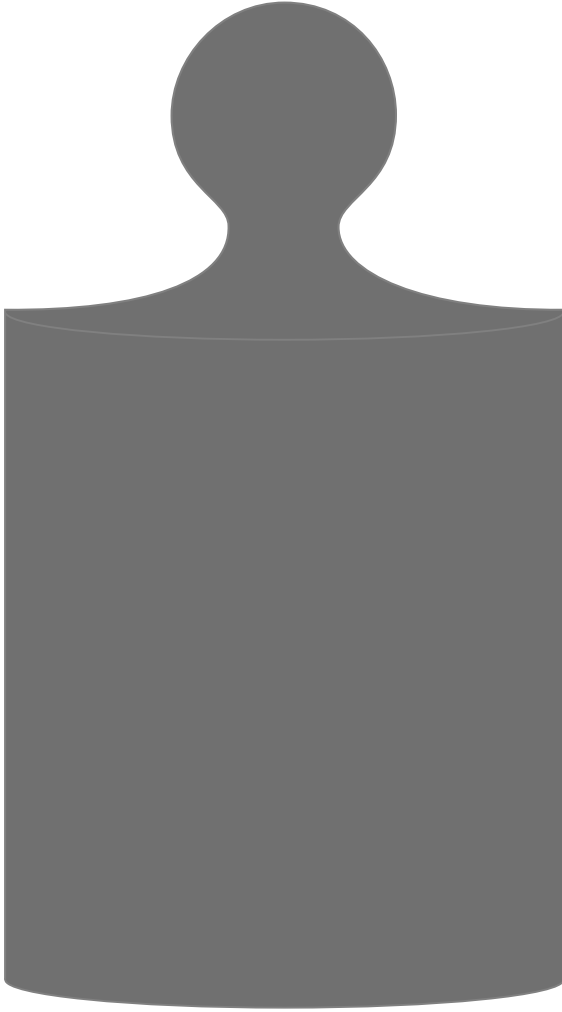
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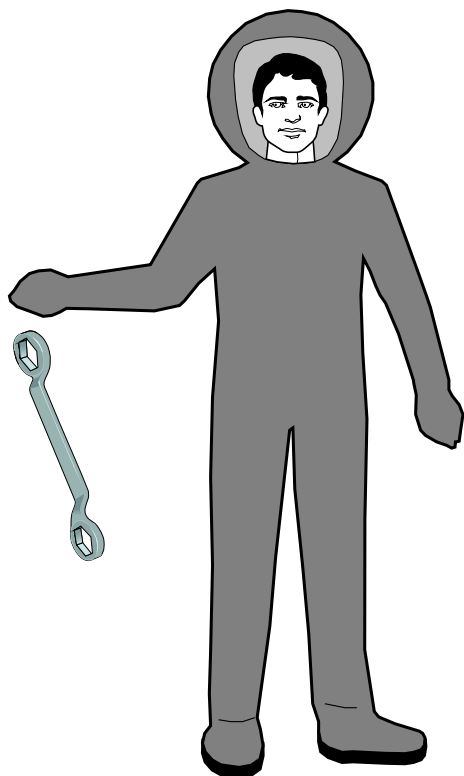
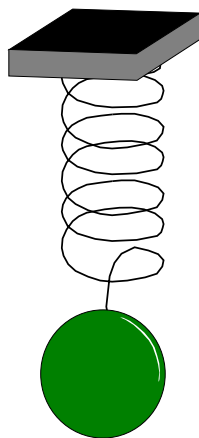
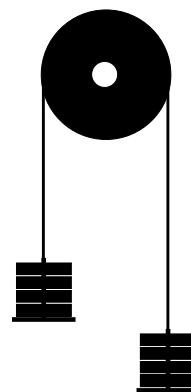
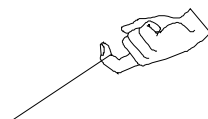
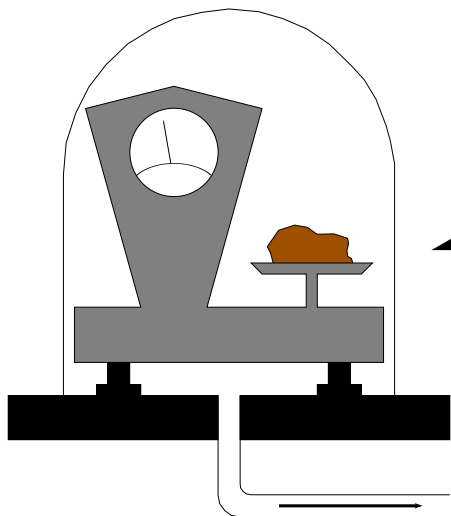
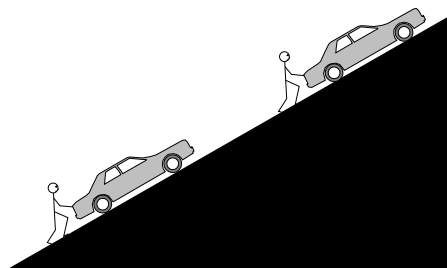
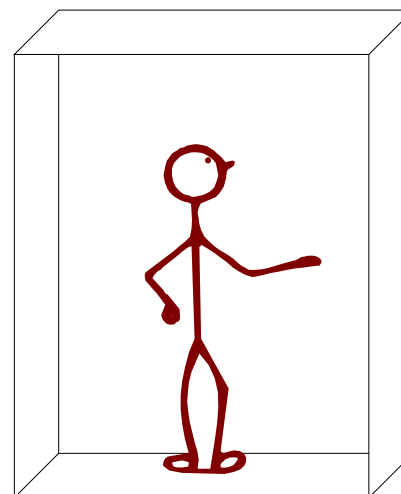




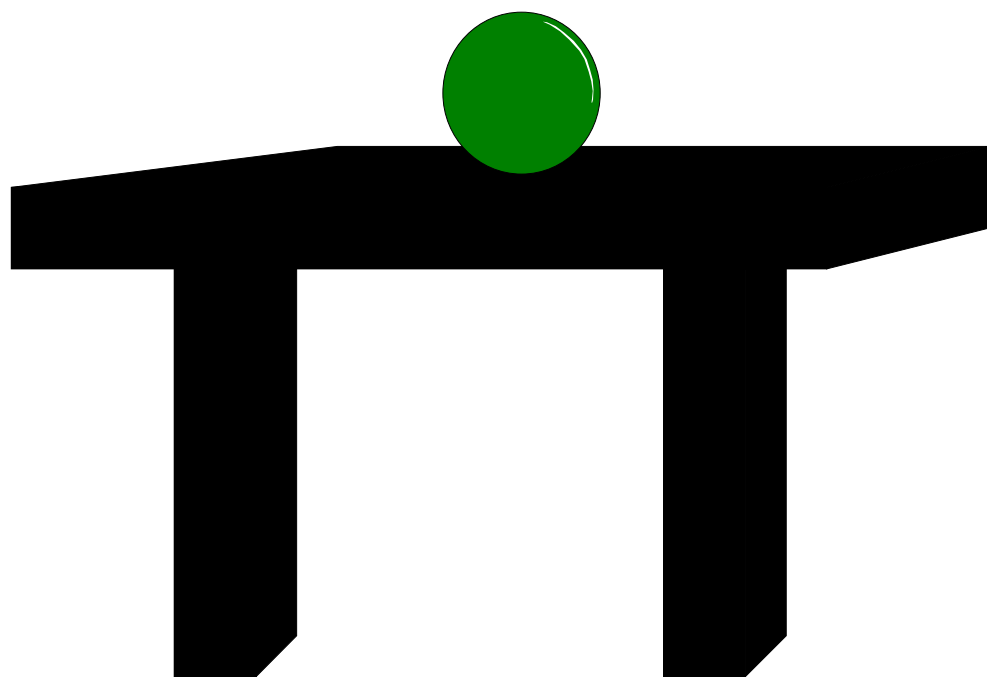
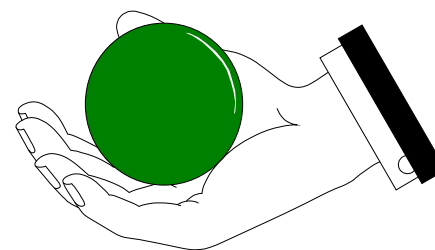
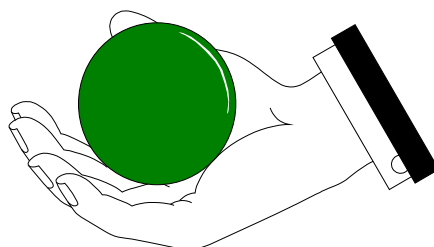
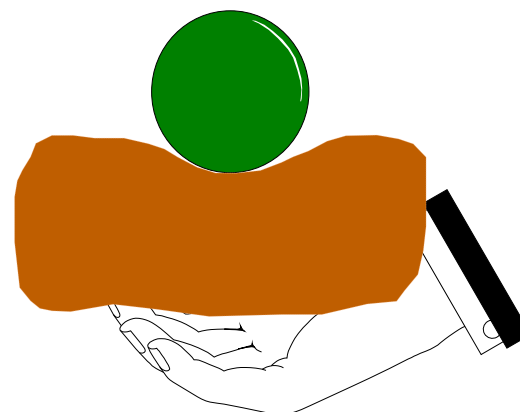






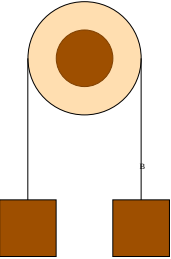


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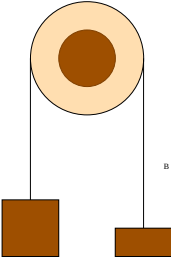
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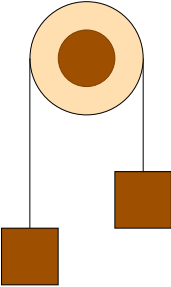
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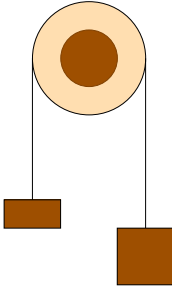
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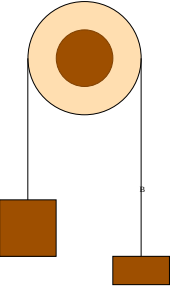
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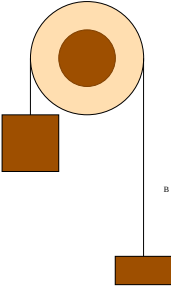
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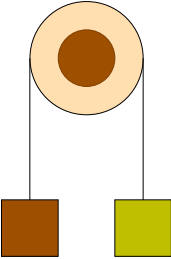
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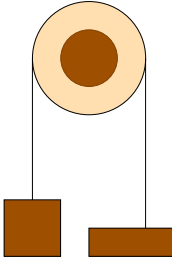
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8

A





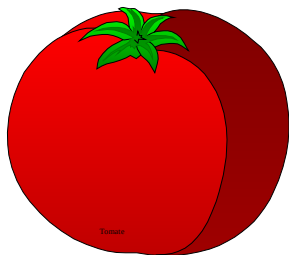
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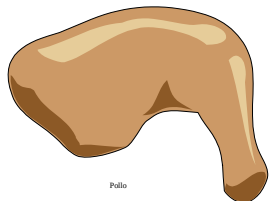




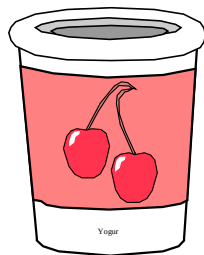
el mismo tamaño pero alargado



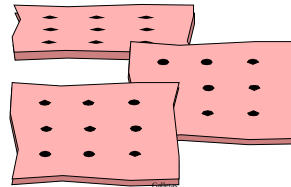
Tomate



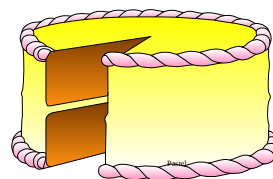
Pollo



Yogur



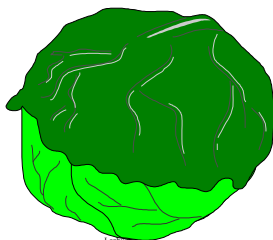
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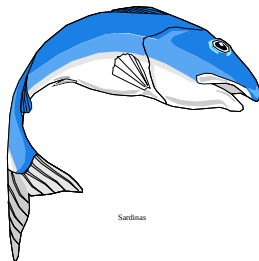
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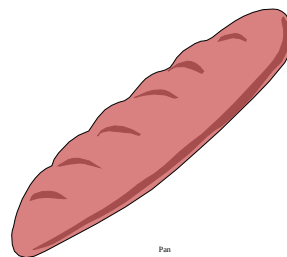
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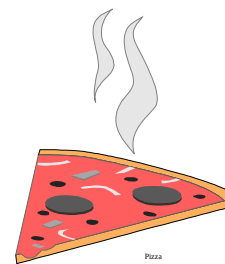
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Sardinas



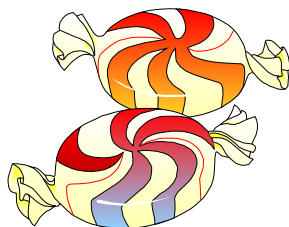
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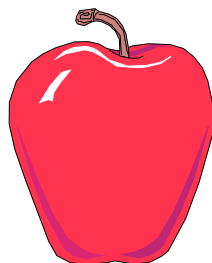
Pizza



Papas fritas



Caramelos



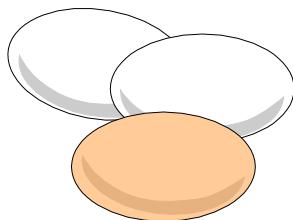
Manzana



Leche



Arroz



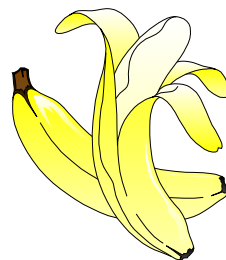
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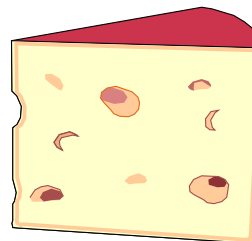
Aceite



Refresco



Plátano



Queso

