
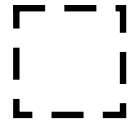


EMAG 2012 Brain Challenge

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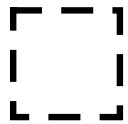
Clock arithmetic

Do → Mi → Sol → Ti → 

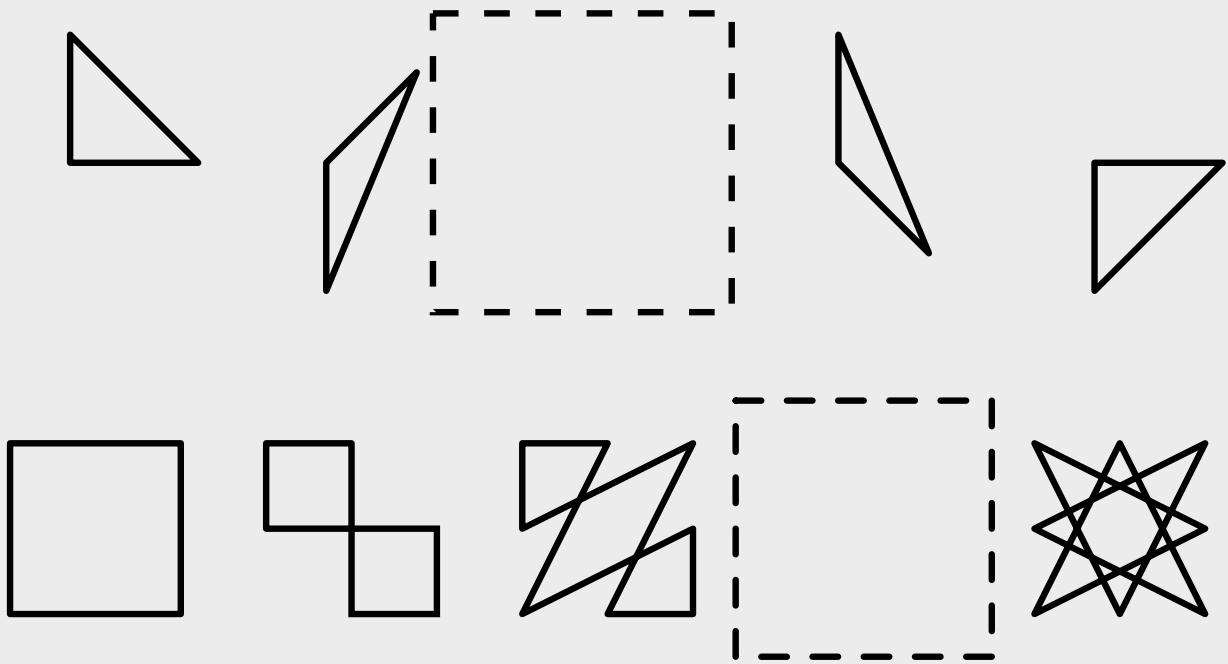
V P K 

C A G B

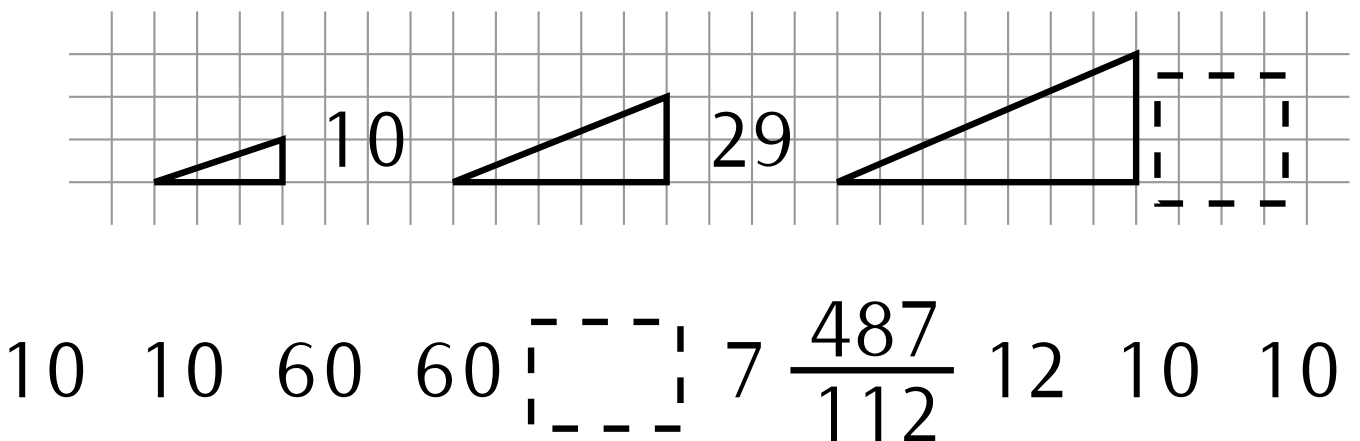
K B D N

 D O A

2-D transformations



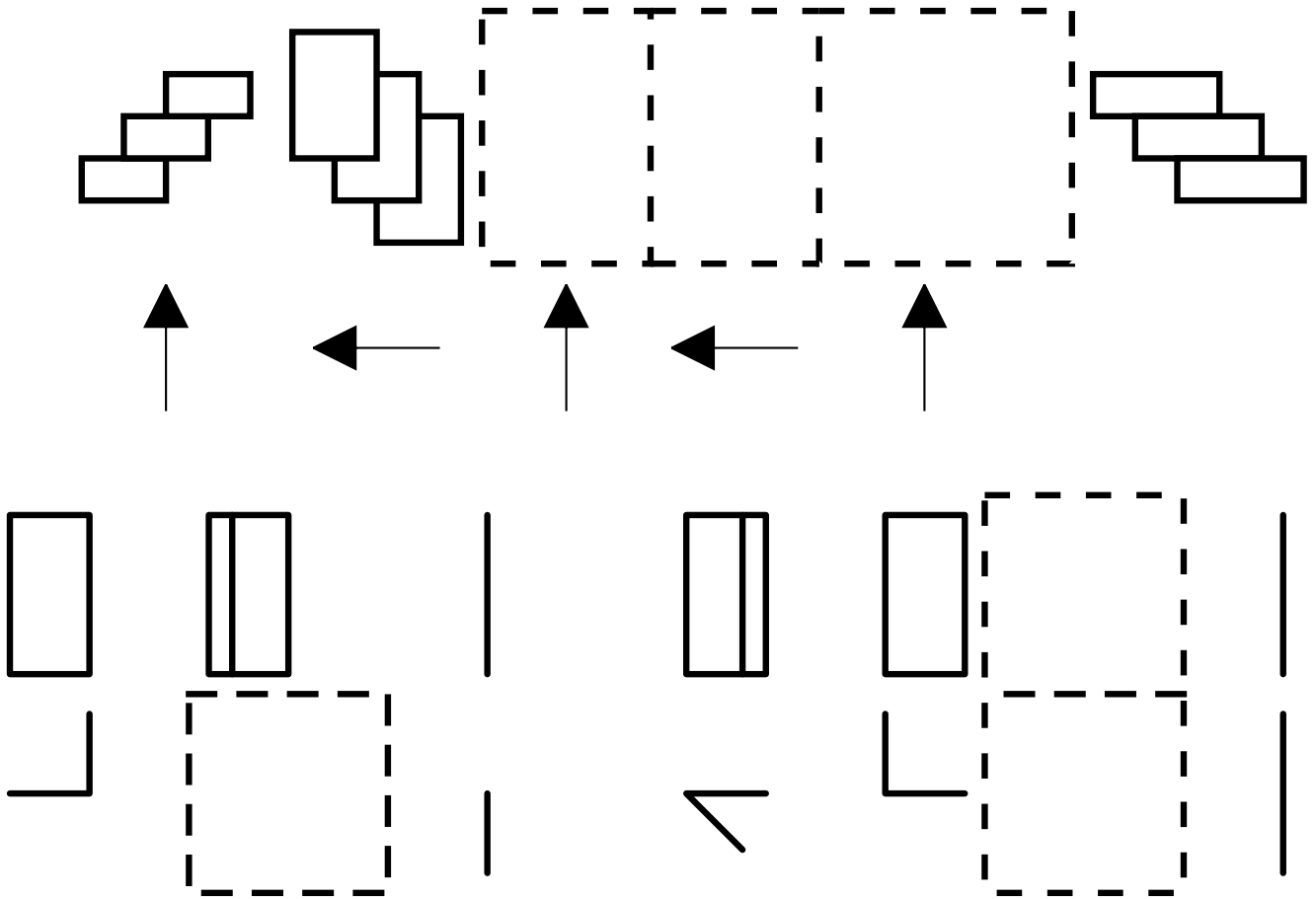
Numbers & associations



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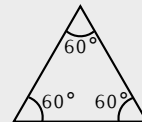
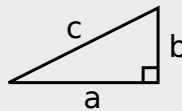
3-D transformations



Reminders

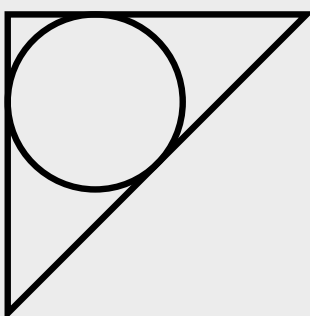
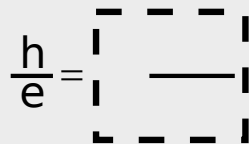
Circumference (C) of the circle (r = radius): $C = 2\pi r$

Pythagorean theorem: $a^2 + b^2 = c^2$

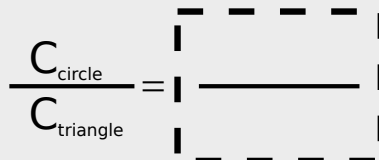


Equilateral triangle

What is the ratio between the height (h) and one edge (e) in a pyramid that consists of four equilateral triangles?



What is the ratio between the circumference of the circle and the circumference of the triangle?



Math and geometry