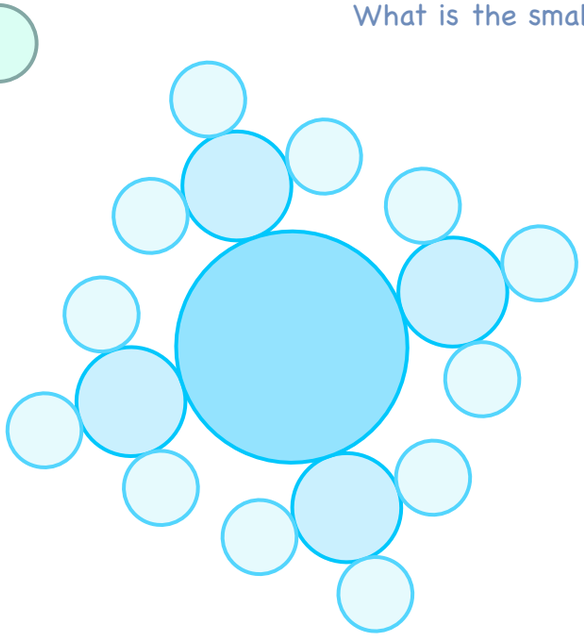
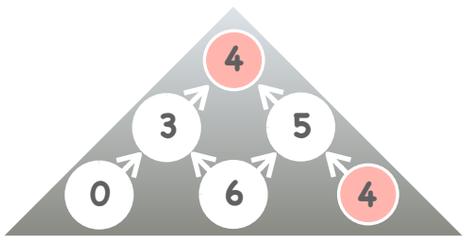
CARDBOARD SNOWFLAKES

For each snowflake, put a unique non-negative integer in each circle.
Circles are the average of the smaller circles that touch them.
What is the smallest value for the central circle?



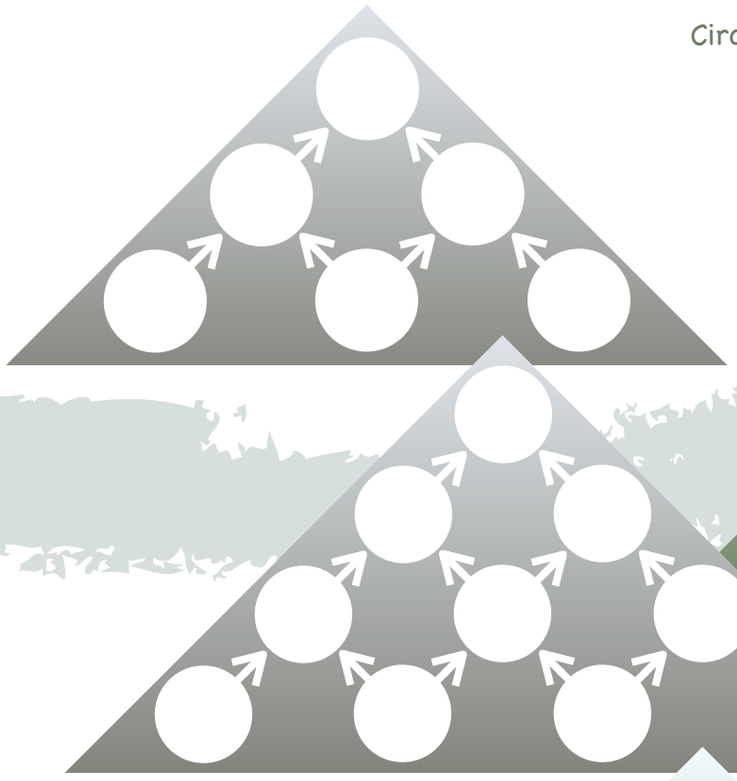
Make your own cardboard circle. Challenge your classmates. Send me your best result and see if I can beat it ;-)

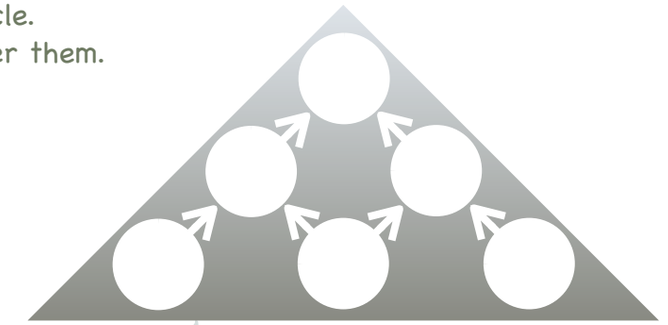
CARDBOARD MOUNTAINS

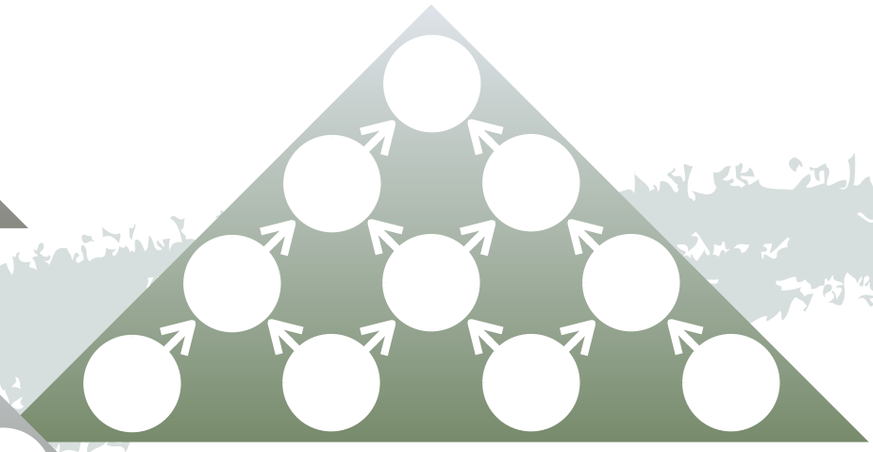


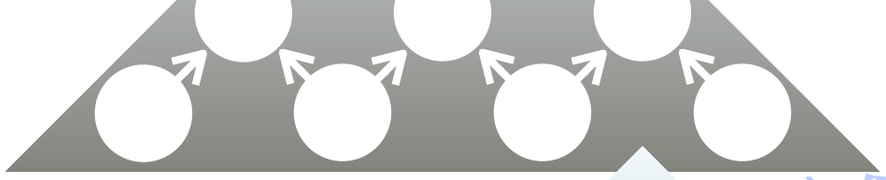
Failure - two fours!

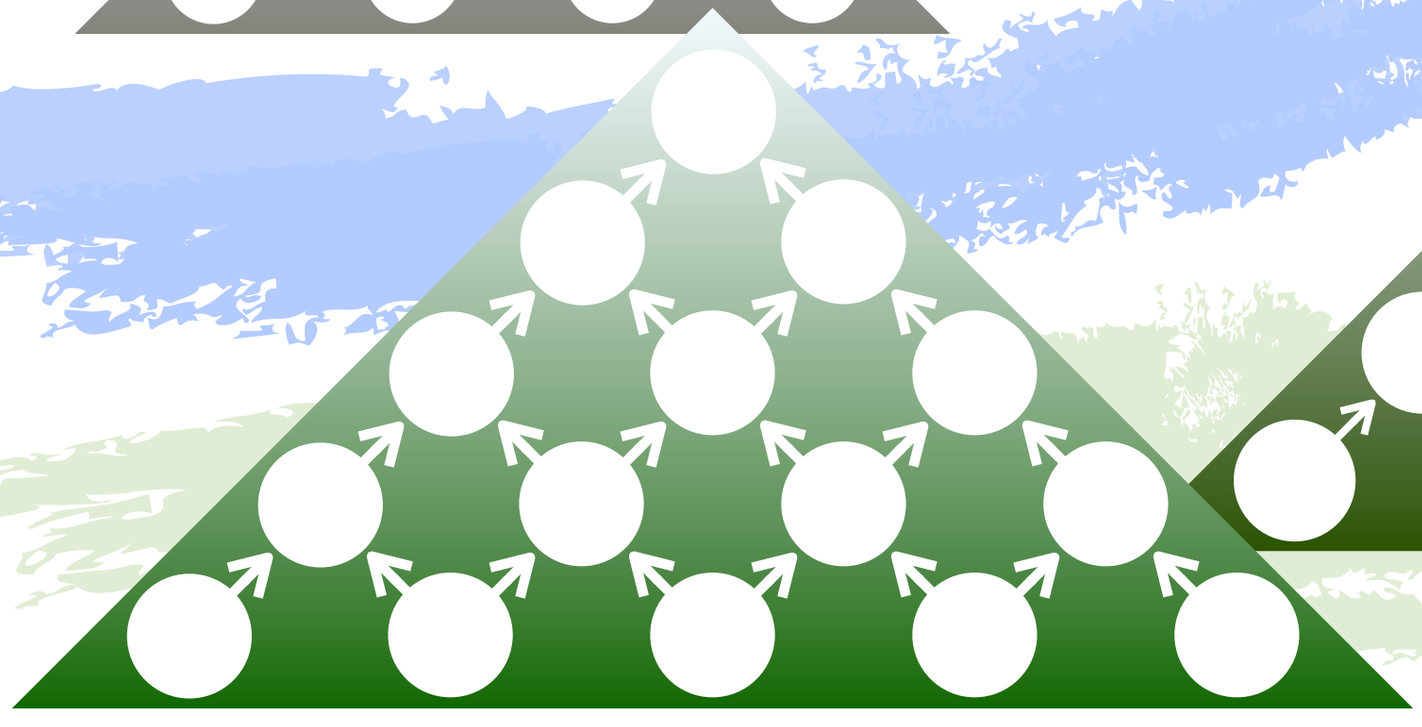
For each mountain, put a unique non-negative integer in each circle.
Circles above the bottom row are the average of the two circles under them.
What is the smallest value for the circle at the peak?

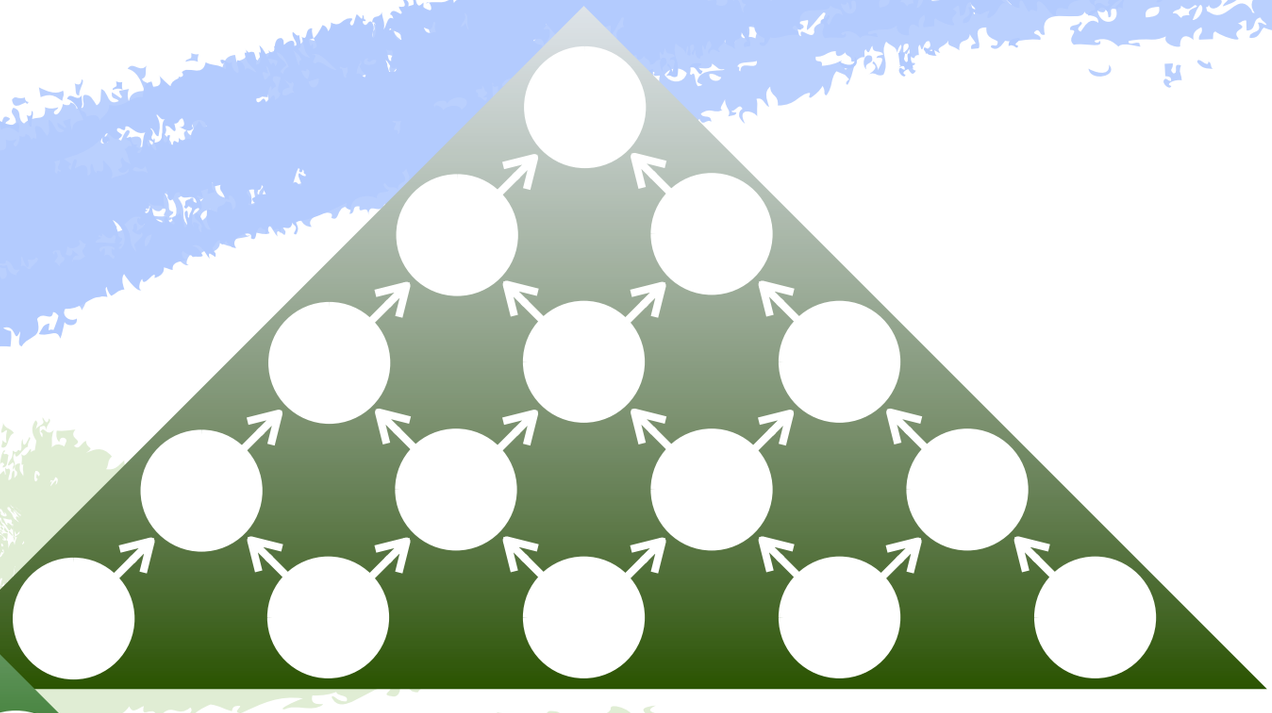


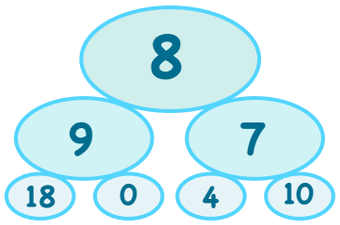


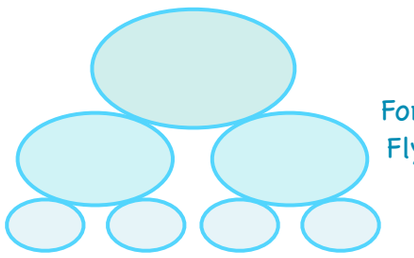
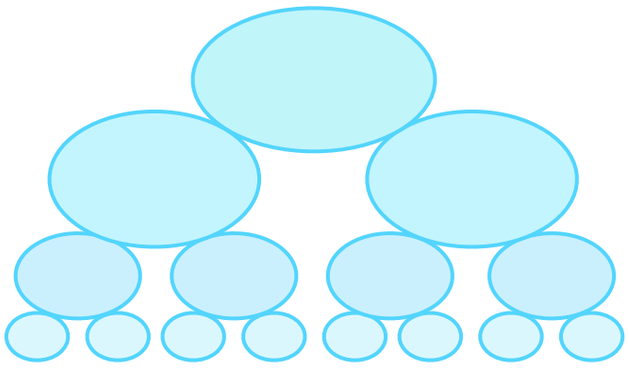
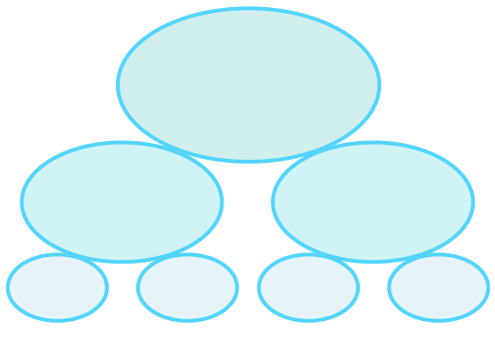
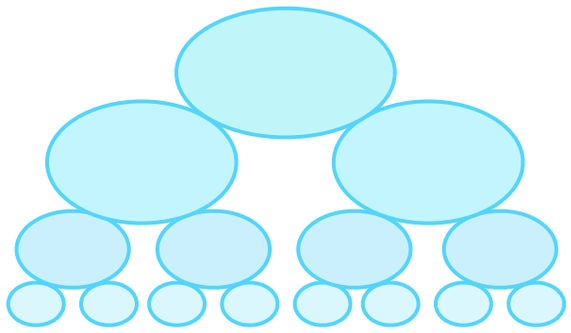
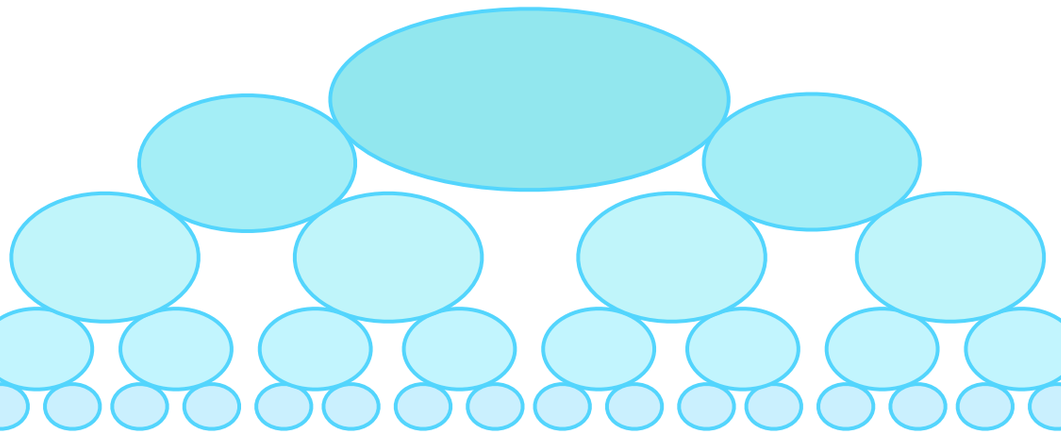
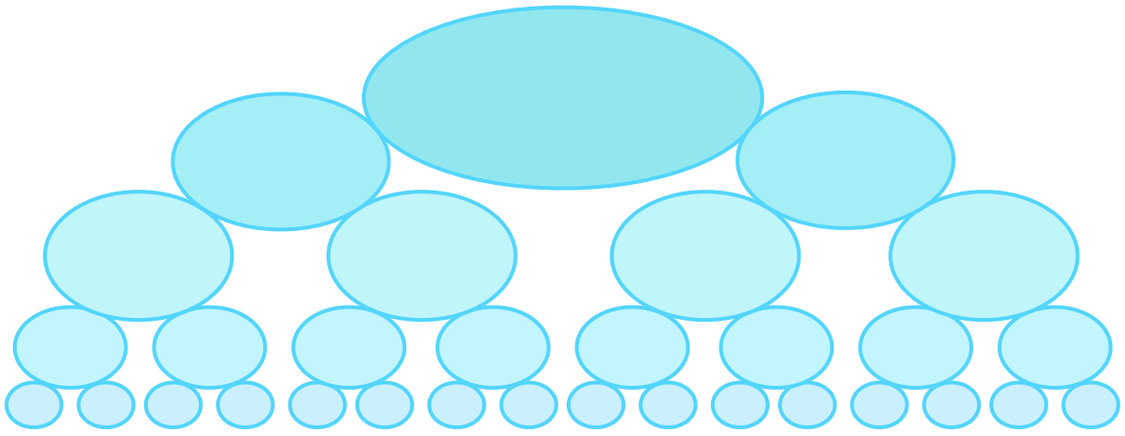
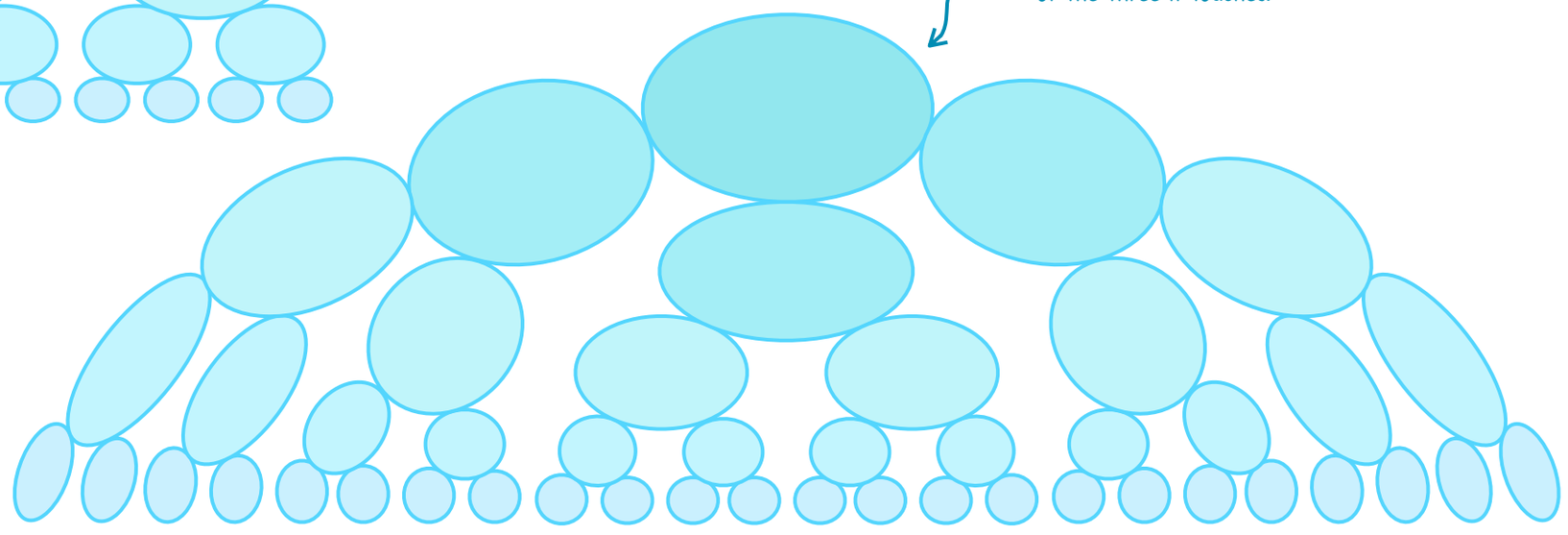
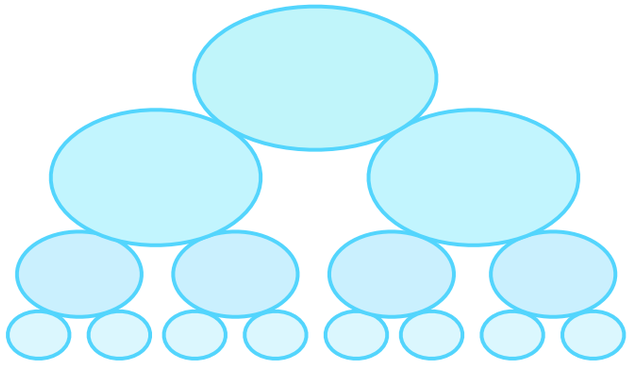
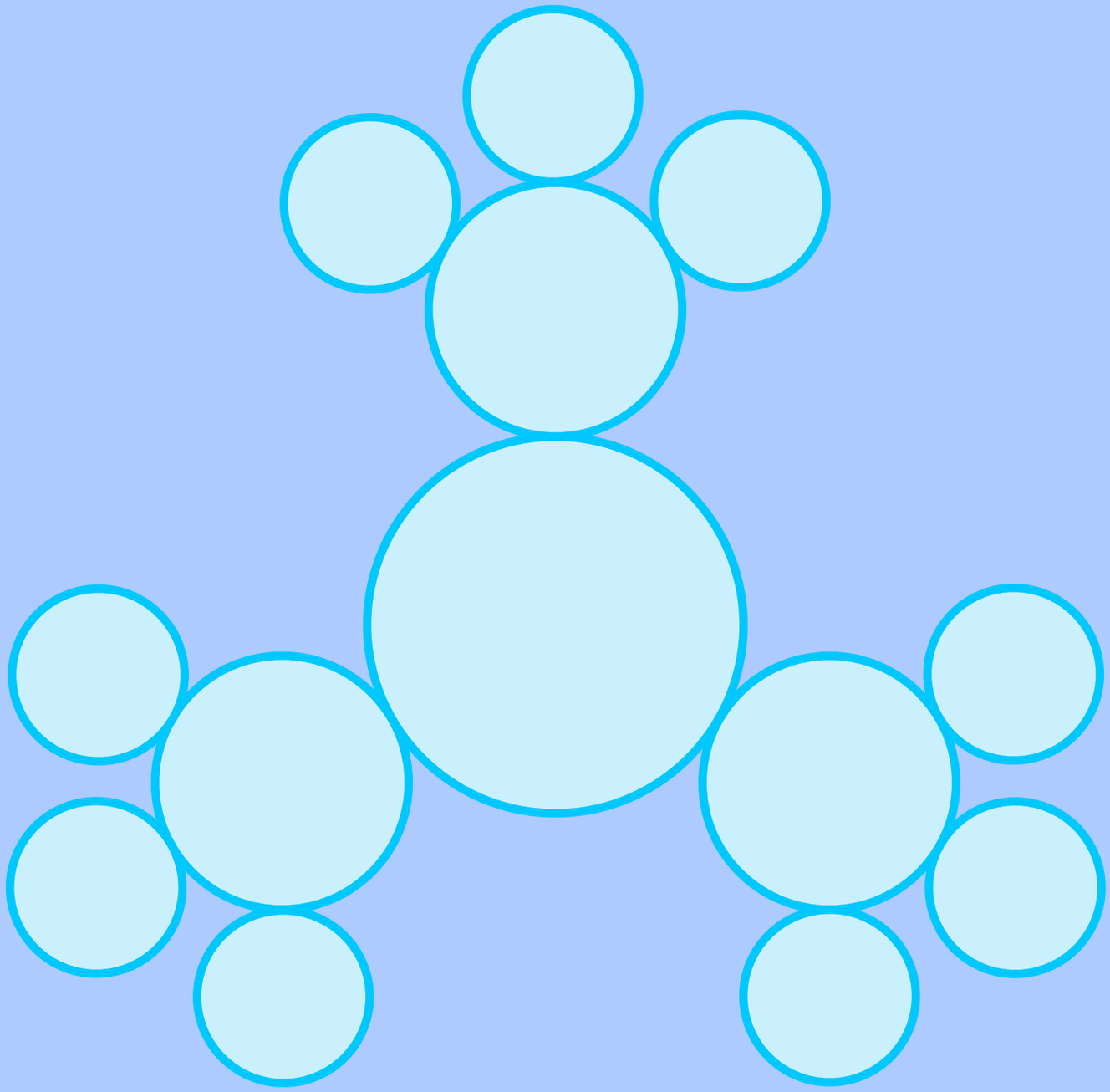
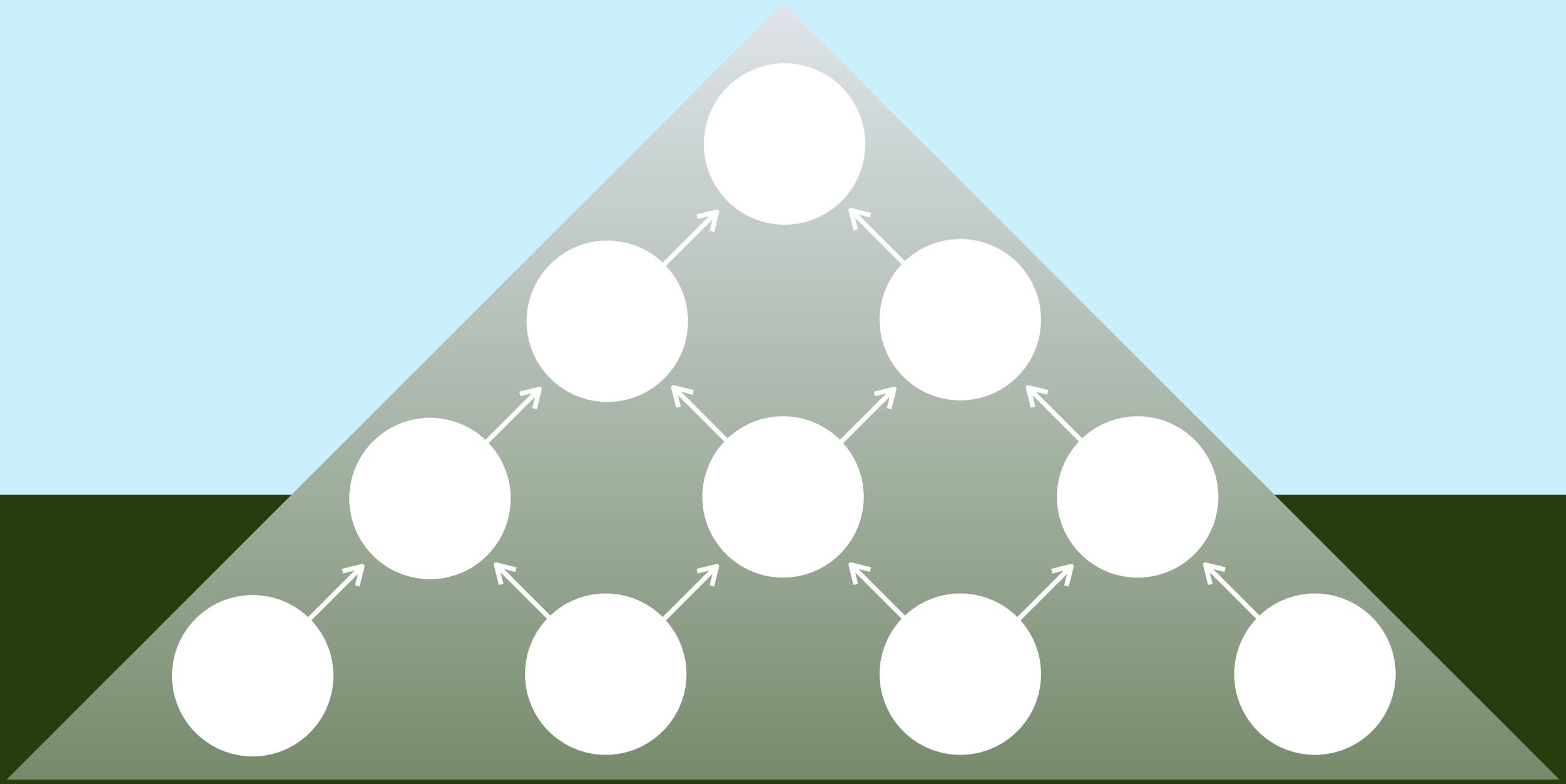










CARDBOARD TOBOGGAN HILLS

For each toboggan hill, put a unique non-negative integer in each flying carpet.
Flying carpets above the bottom row are the average of the two under them.
What is the smallest value for the one at the top?