

## Dot Number Talks

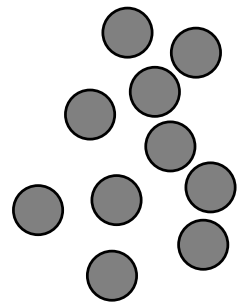
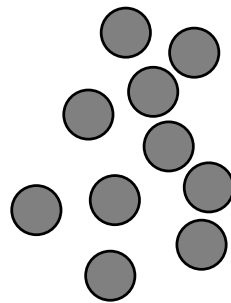
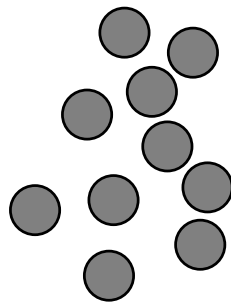
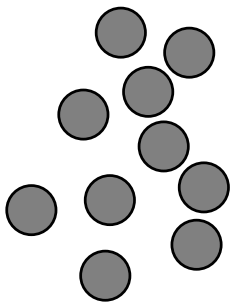
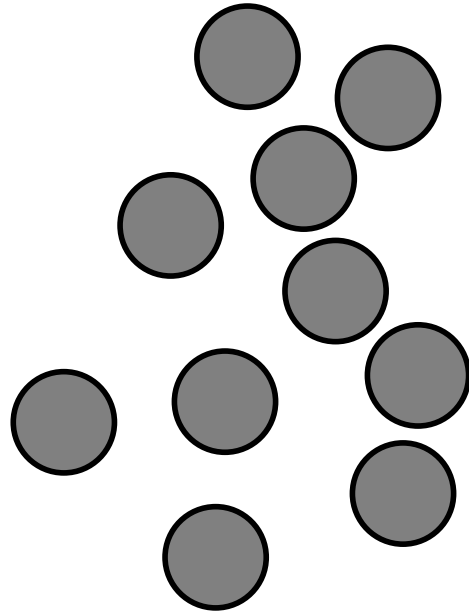
How many dots do you see?

How do you see them?

Does anybody see them differently?

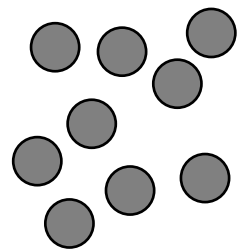
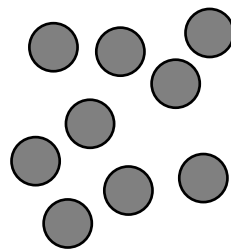
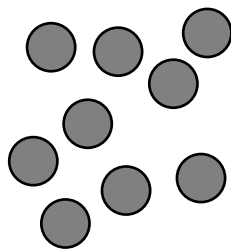
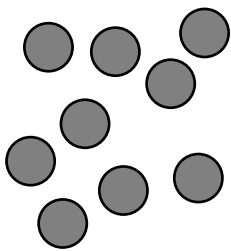
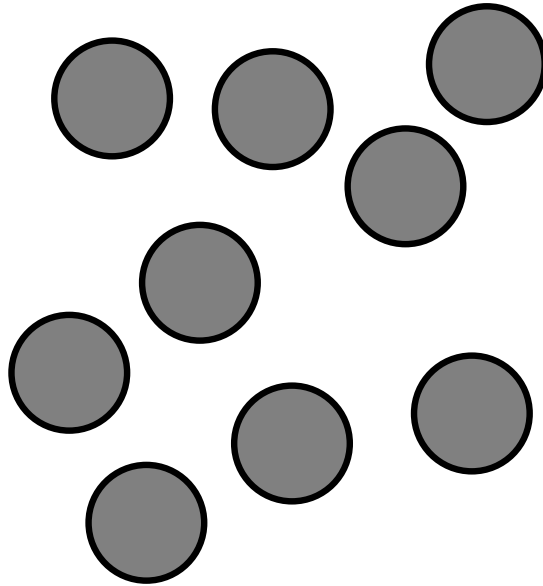
Dot Pattern 01

How many dots do you see? How do you see them? Does anybody see them differently?



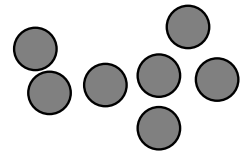
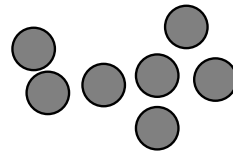
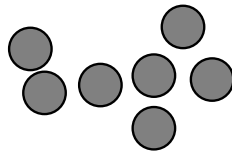
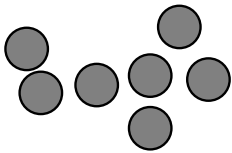
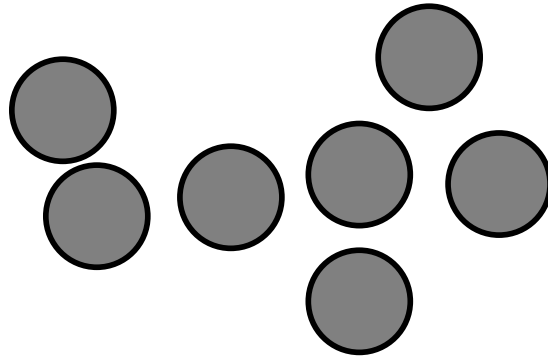
## Dot Pattern 02

How many dots do you see? How do you see them? Does anybody see them differently?



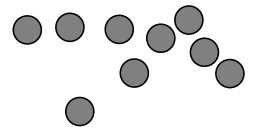
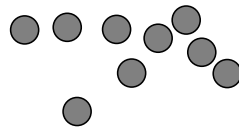
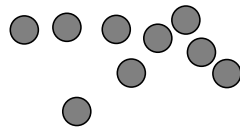
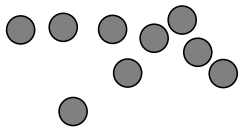
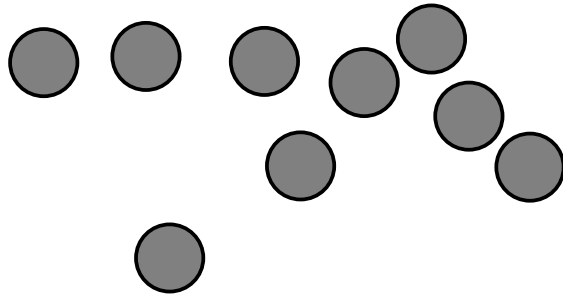
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How many dots do you see? How do you see them? Does anybody see them differently?



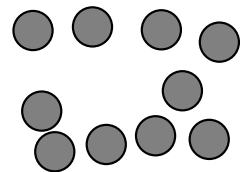
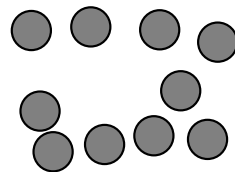
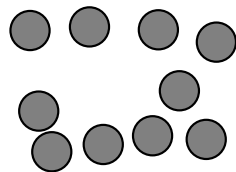
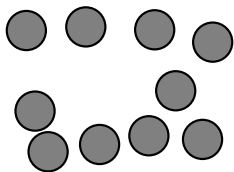
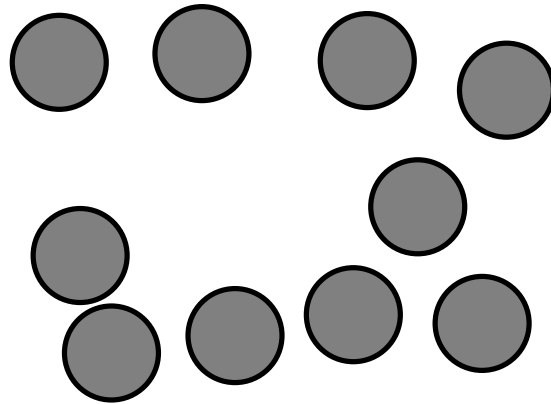
## Dot Pattern 04

How many dots do you see? How do you see them? Does anybody see them differently?



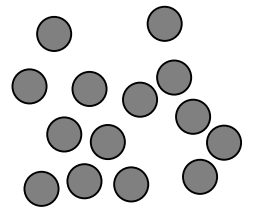
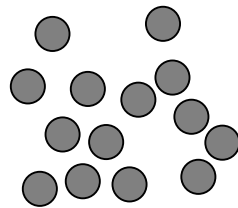
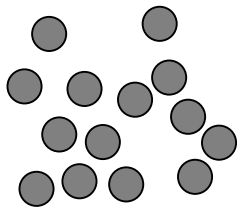
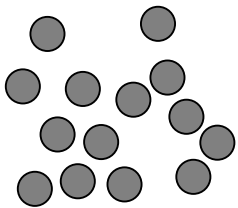
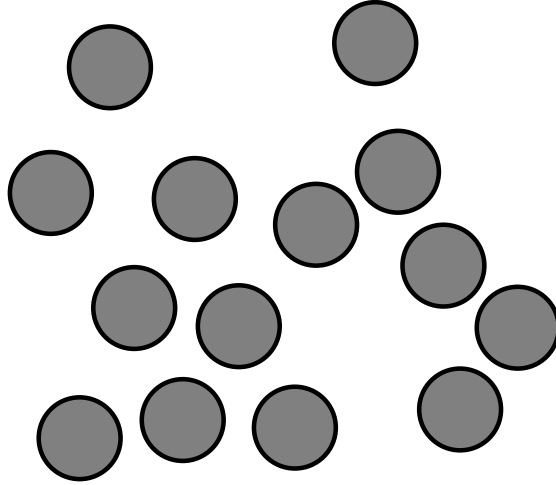
Dot Pattern 05

How many dots do you see? How do you see them? Does anybody see them differently?



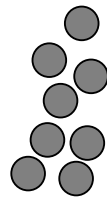
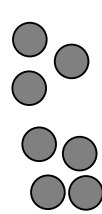
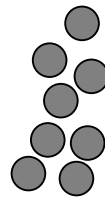
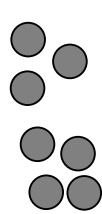
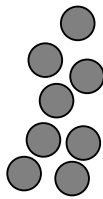
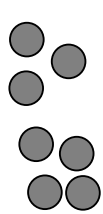
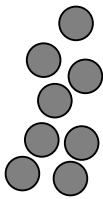
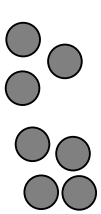
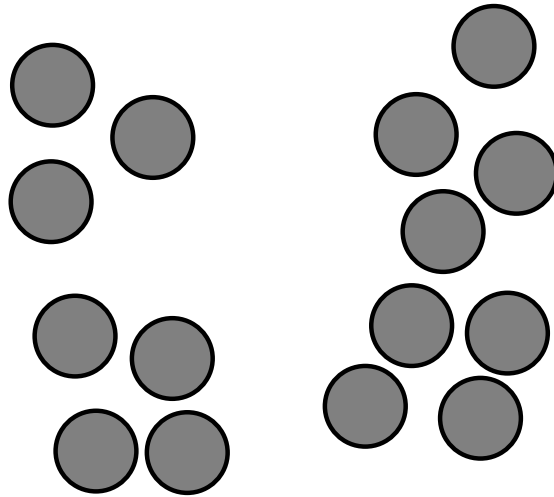
## Dot Pattern 06

How many dots do you see? How do you see them? Does anybody see them differently?



Dot Pattern 07

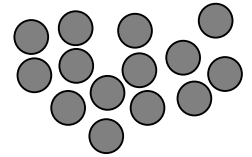
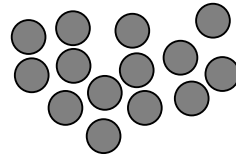
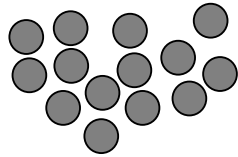
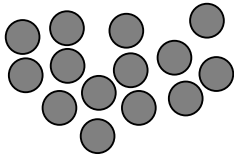
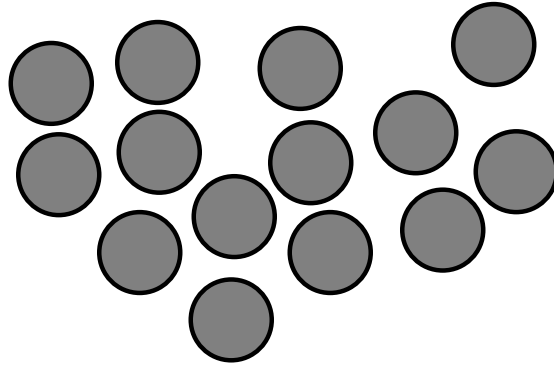
How many dots do you see? How do you see them? Does anybody see them differently?





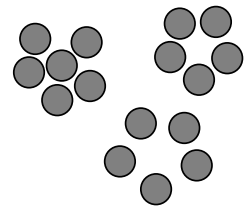
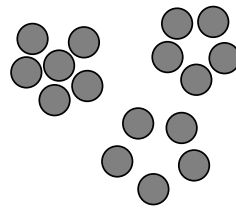
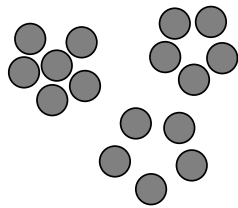
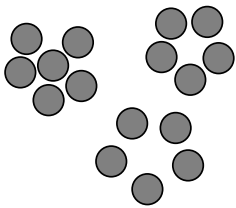
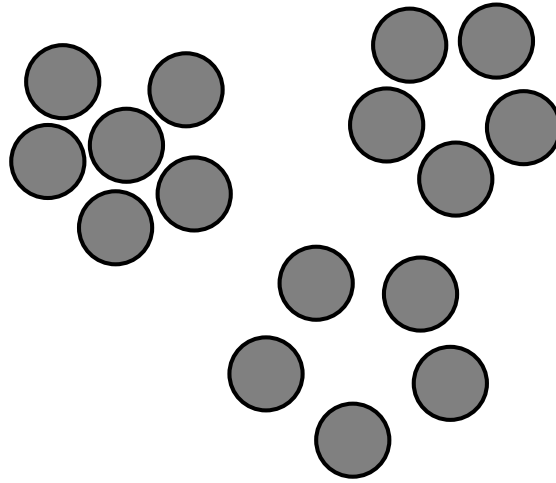
Dot Pattern 08

How many dots do you see? How do you see them? Does anybody see them differently?



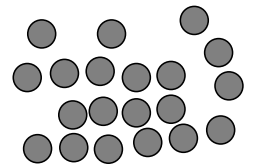
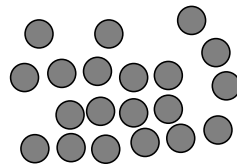
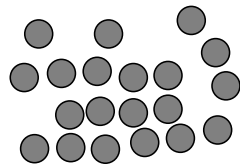
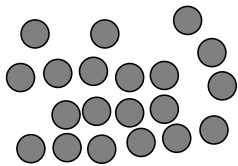
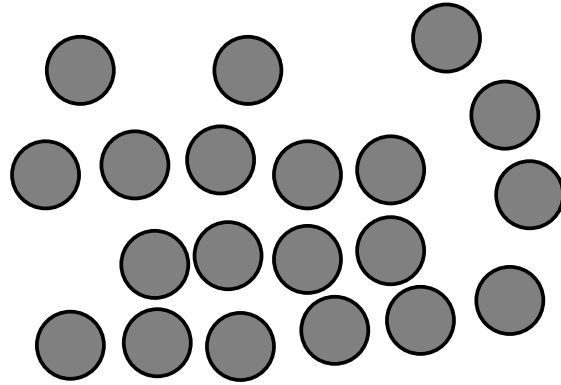
Dot Pattern 09

How many dots do you see? How do you see them? Does anybody see them differently?



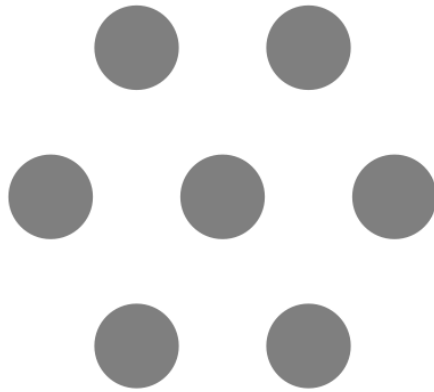
## Dot Pattern 10

How many dots do you see? How do you see them? Does anybody see them differently?



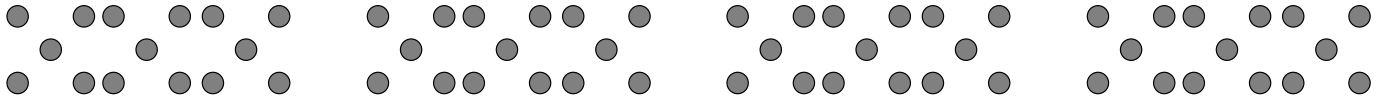
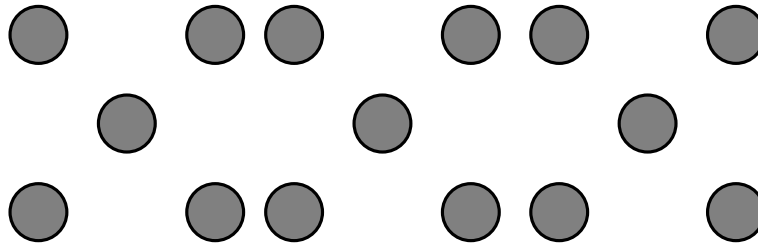
Dot Pattern 11 (<https://www.youcubed.org/>)

How many dots do you see? How do you see them? Does anybody see them differently?



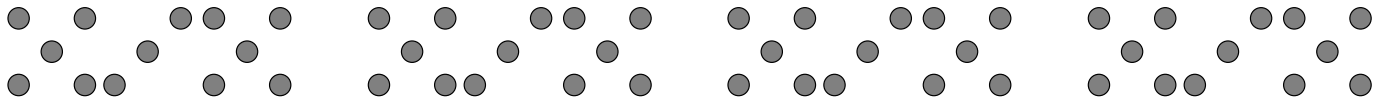
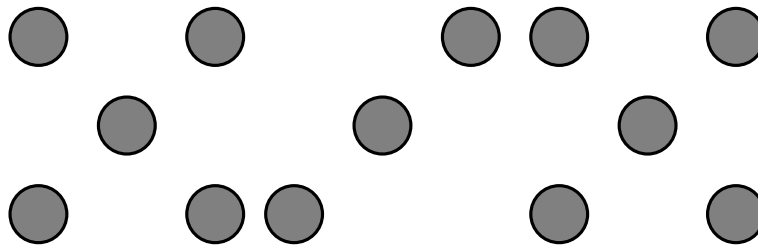
## Dot Pattern 12

How many dots do you see? How do you see them? Does anybody see them differently?



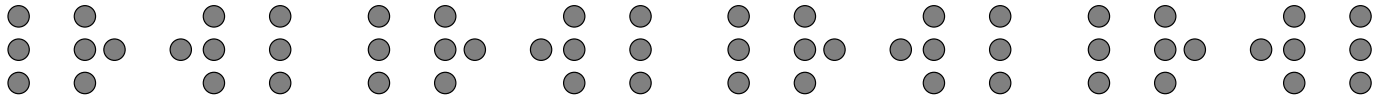
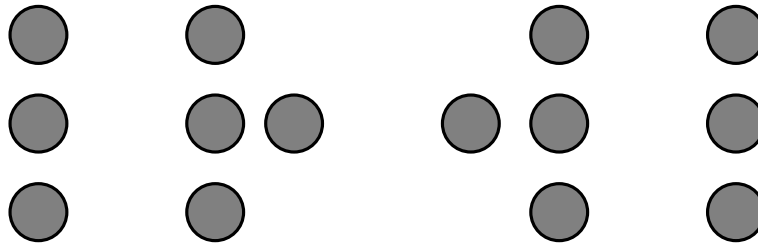
### Dot Pattern 13

How many dots do you see? How do you see them? Does anybody see them differently?



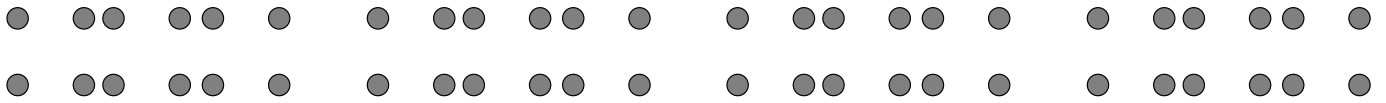
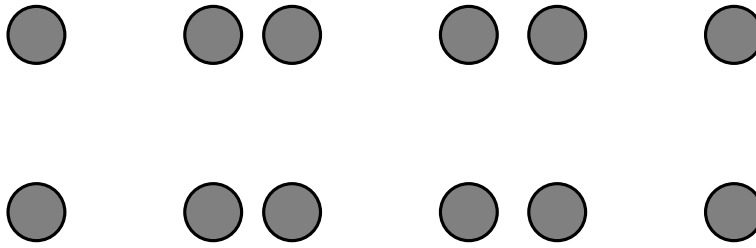
# Dot Pattern 14

How many dots do you see? How do you see them? Does anybody see them differently?



## Dot Pattern 15

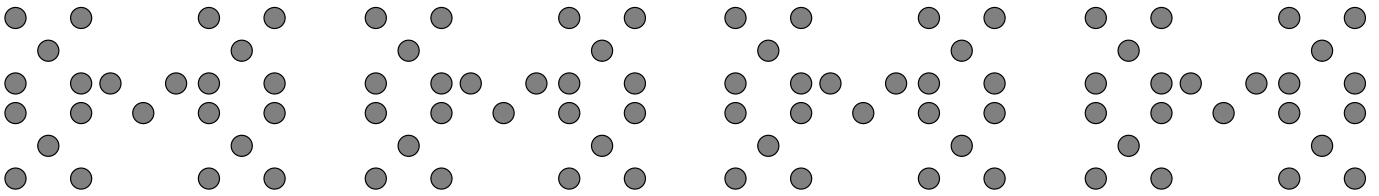
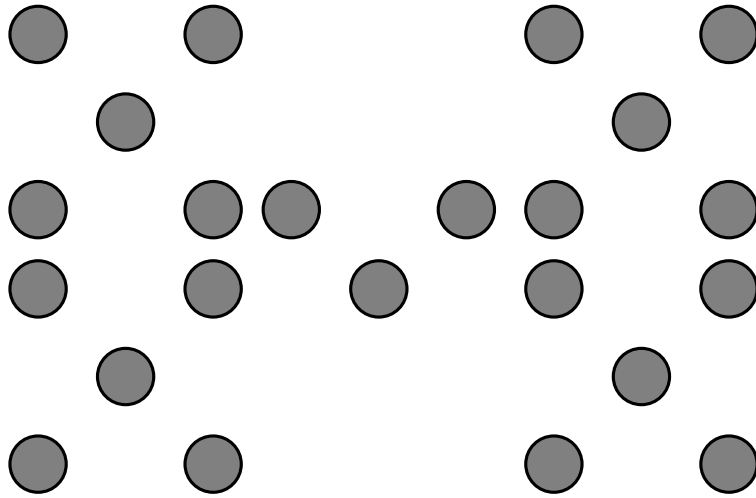
How many dots do you see? How do you see them? Does anybody see them differently?





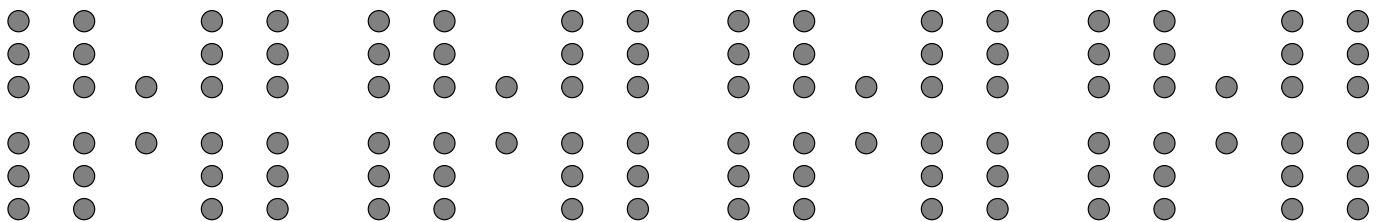
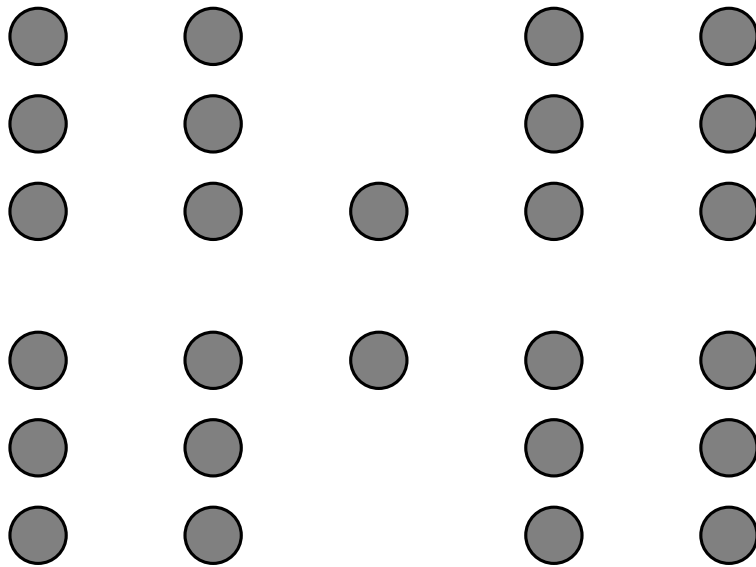
## Dot Pattern 16

How many dots do you see? How do you see them? Does anybody see them differently?



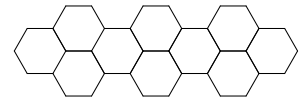
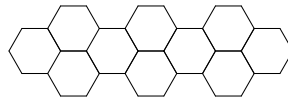
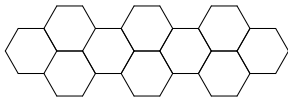
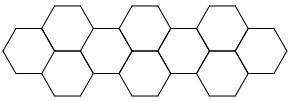
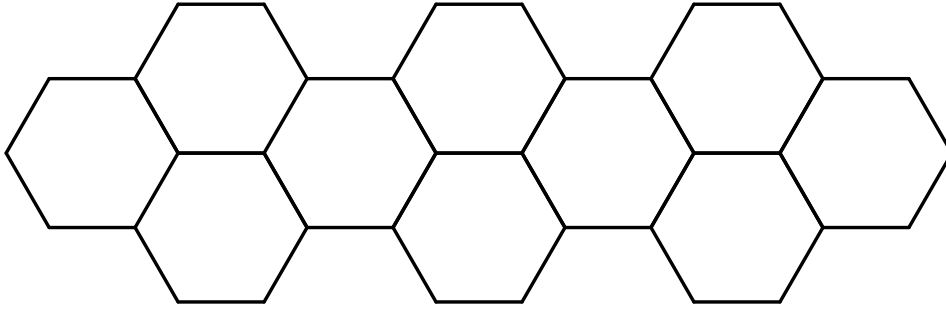
# Dot Pattern 17

How many dots do you see? How do you see them? Does anybody see them differently?



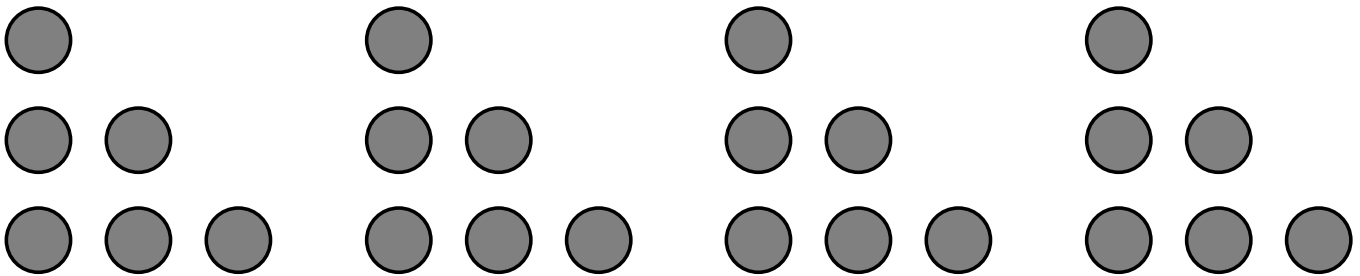
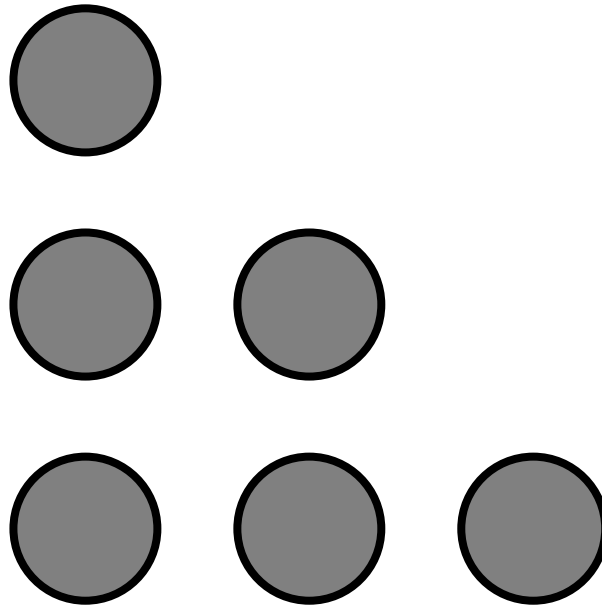
Dot Pattern 18

How many hexagons do you see? How do you see them? Does anybody see them differently?



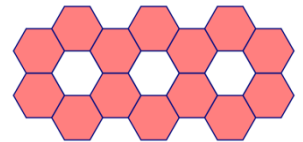
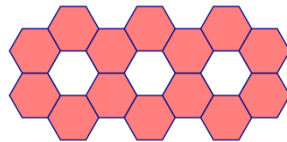
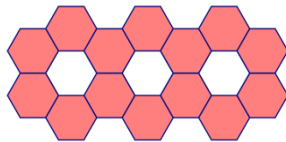
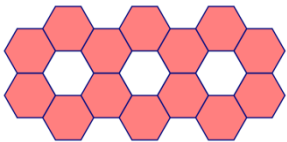
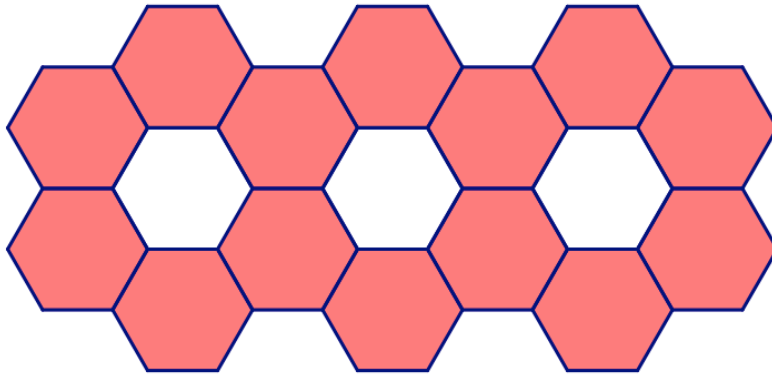
Dot Pattern 19

How many dots do you see? How do you see them? Does anybody see them differently?



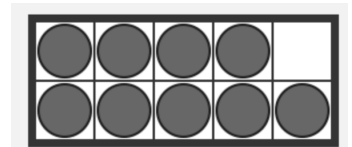
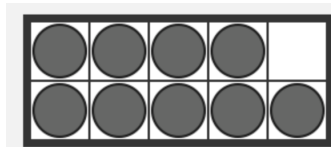
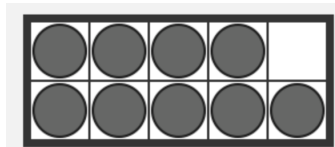
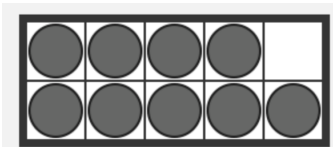
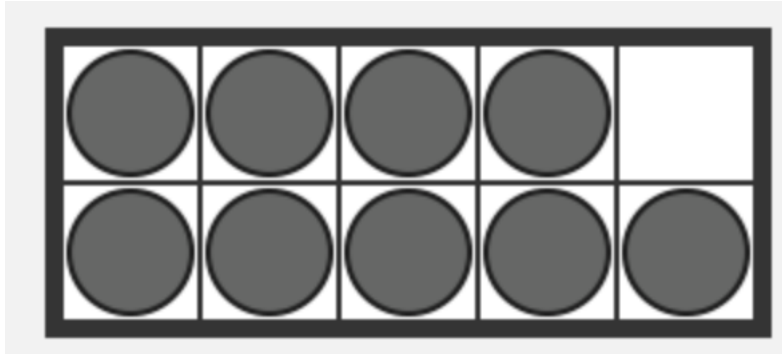
Dot Pattern 20

How many shaded hexagons do you see? How do you see them? Does anybody see them differently?



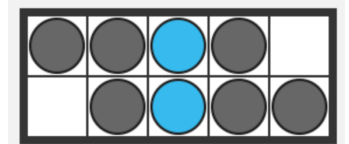
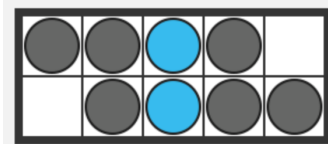
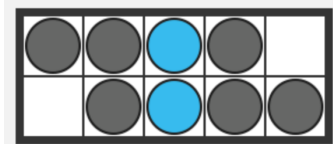
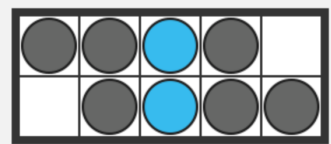
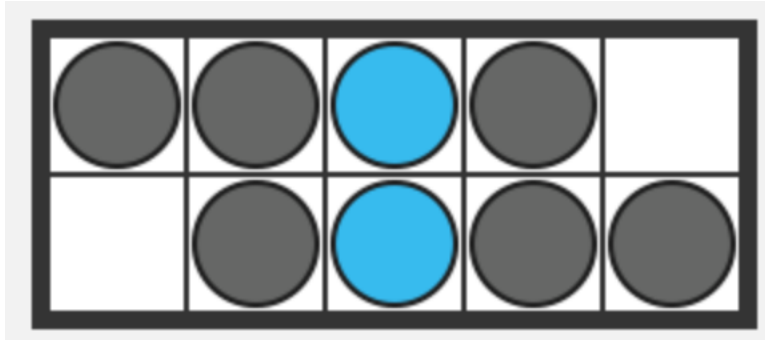
Dot Pattern 21

How many dots do you see? How do you see them? Does anybody see them differently?



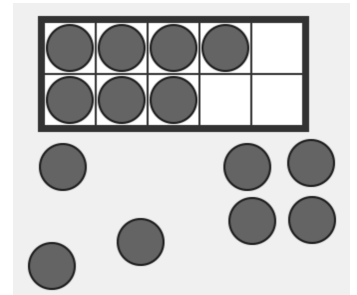
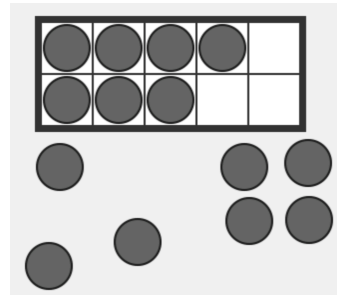
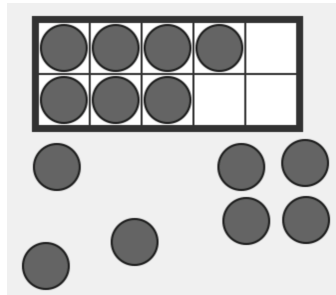
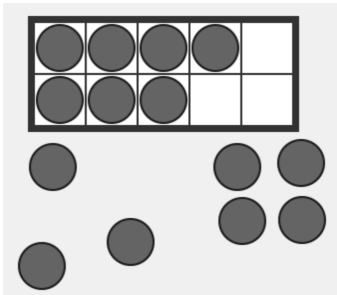
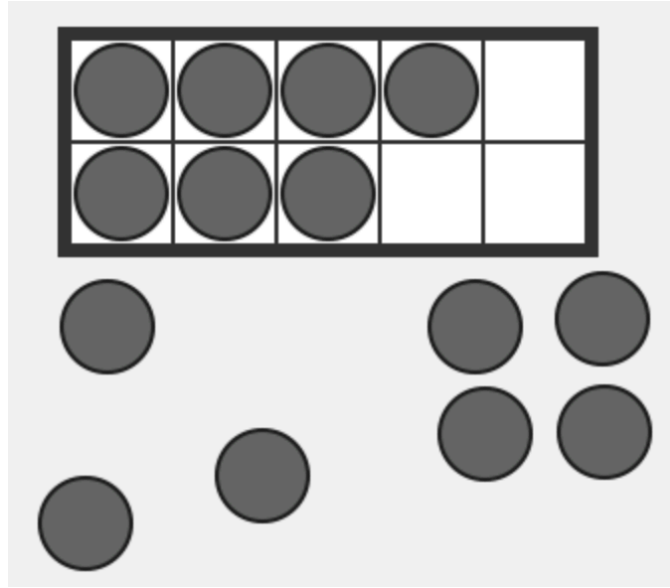
Dot Pattern 22

How many dots do you see? How do you see them? Does anybody see them differently?



Dot Pattern 23

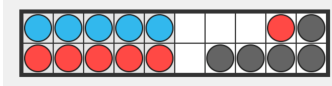
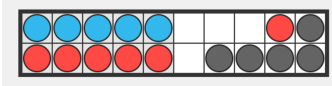
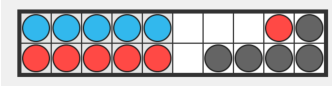
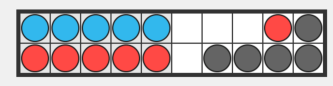
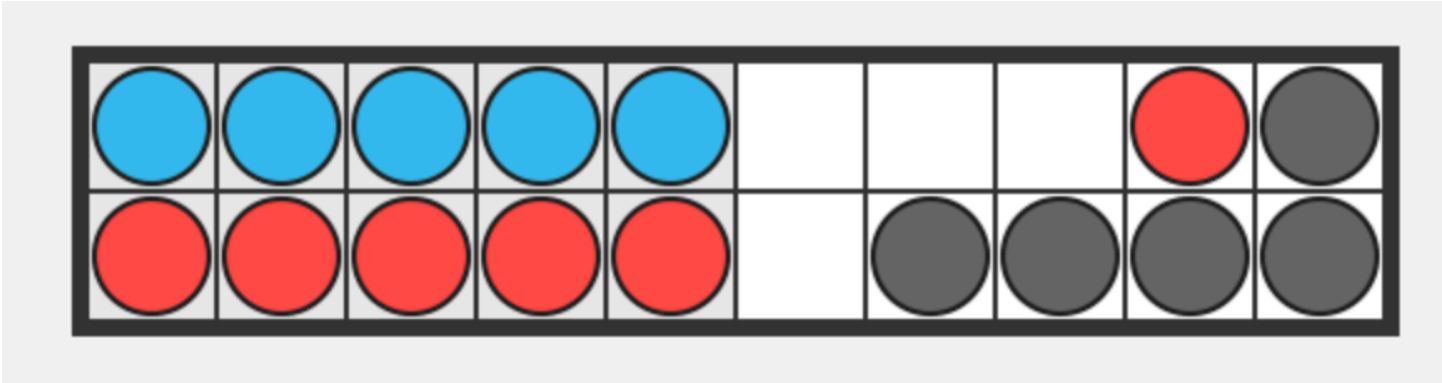
How many dots do you see? How do you see them? Does anybody see them differently?





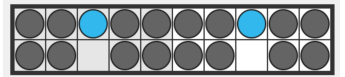
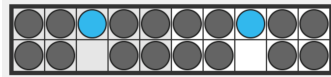
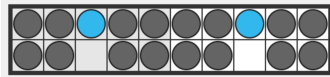
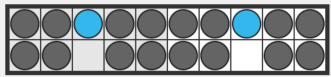
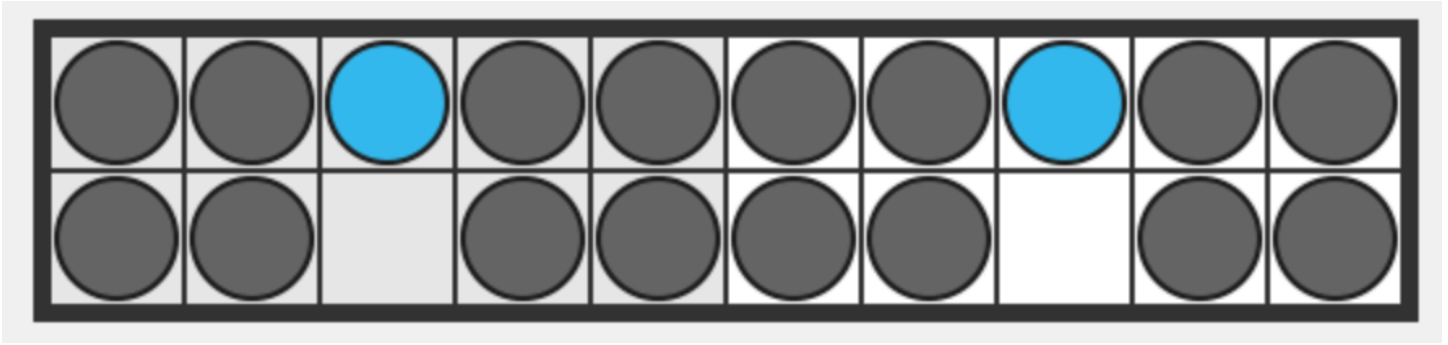
Dot Pattern 24

How many dots do you see? How do you see them? Does anybody see them differently?



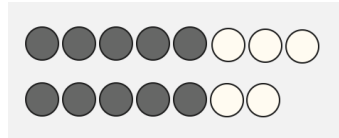
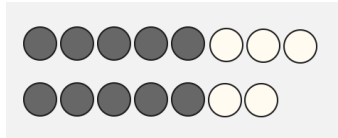
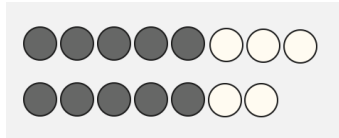
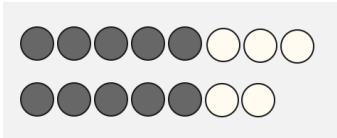
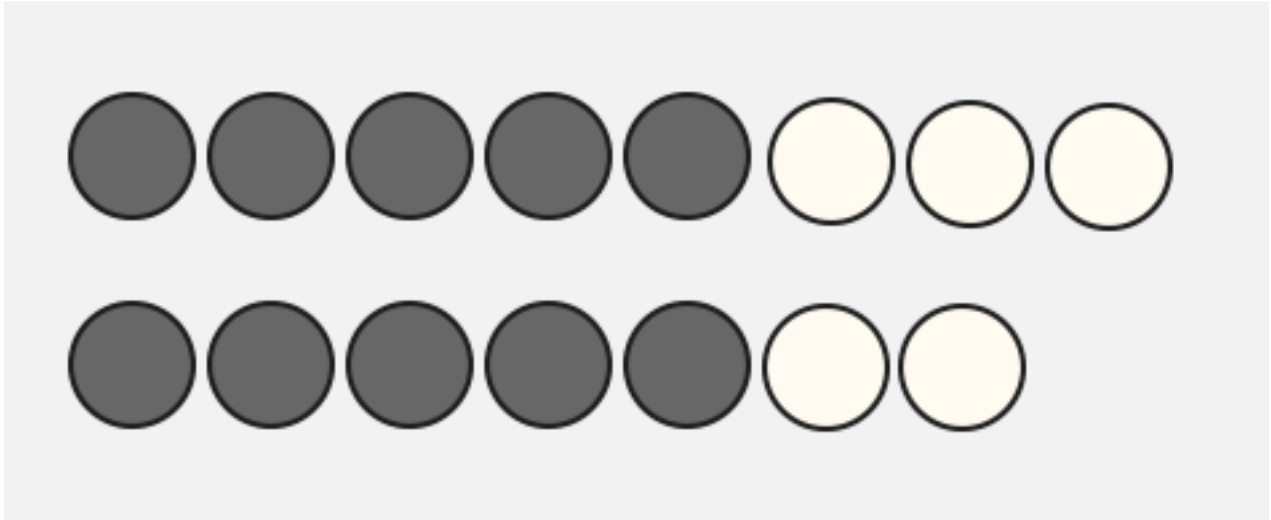
Dot Pattern 25

How many dots do you see? How do you see them? Does anybody see them differently?



Dot Pattern 26

How many do you see? How do you see them? Does anybody see them differently?

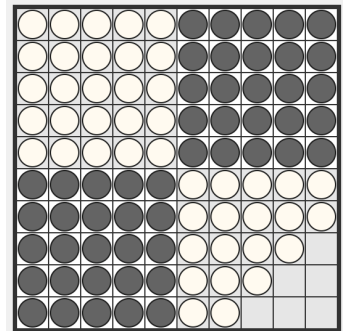
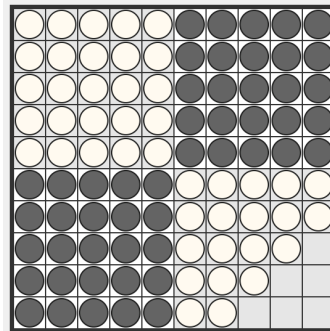
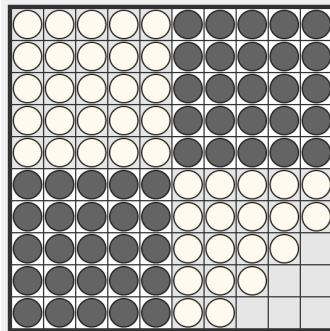
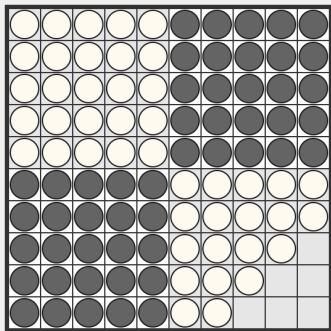
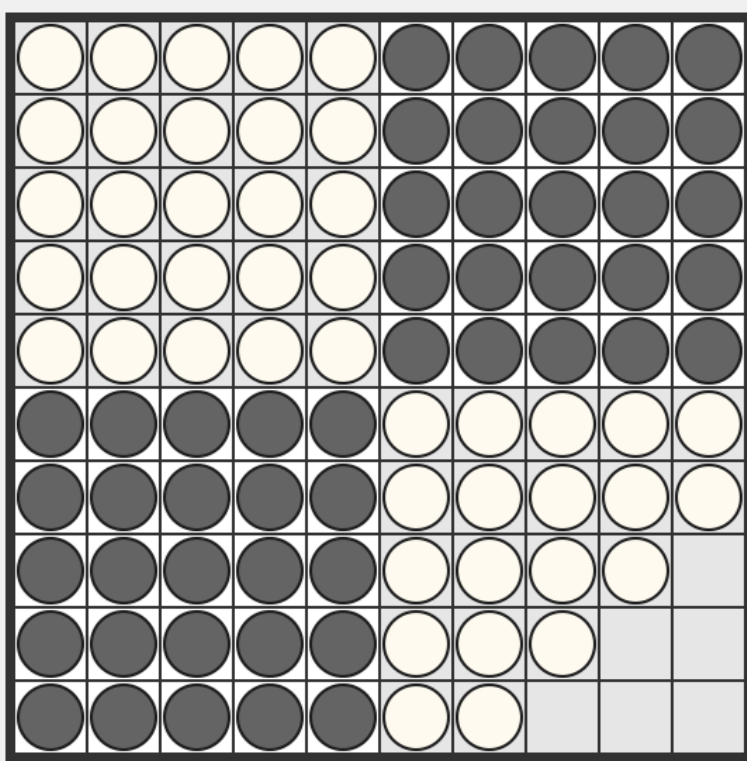






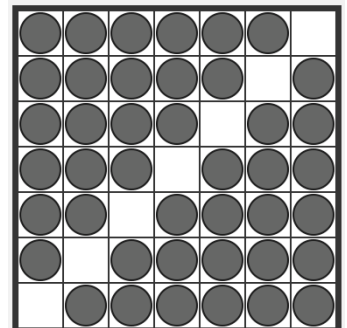
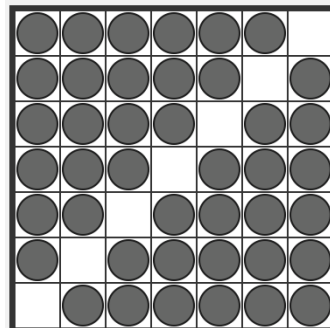
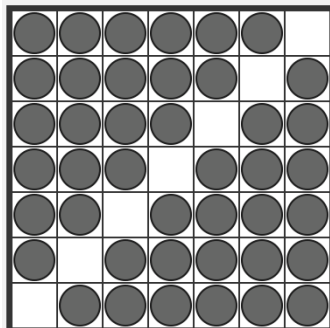
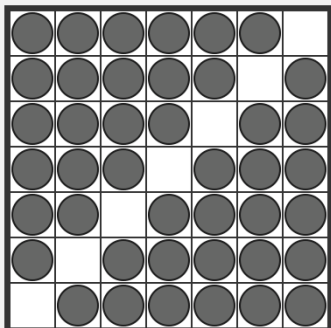
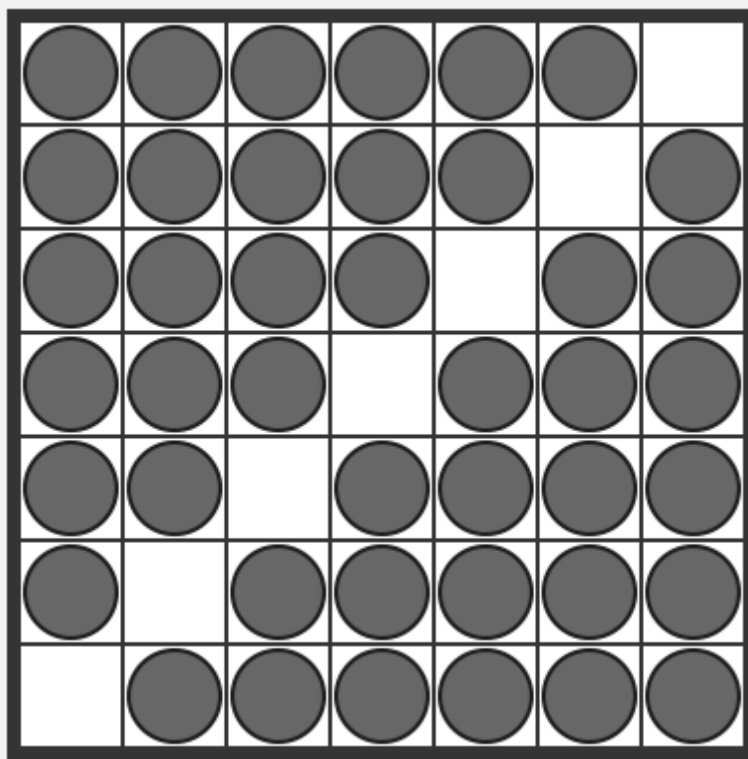
Dot Pattern 29

How many dots do you see? How do you see them? Does anybody see them differently?



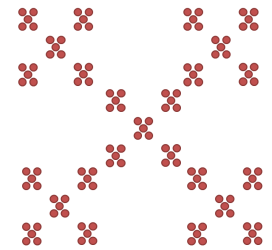
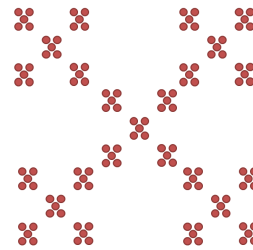
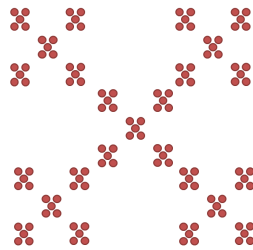
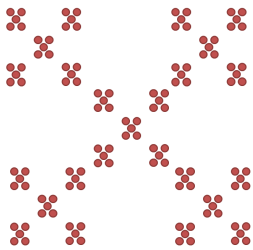
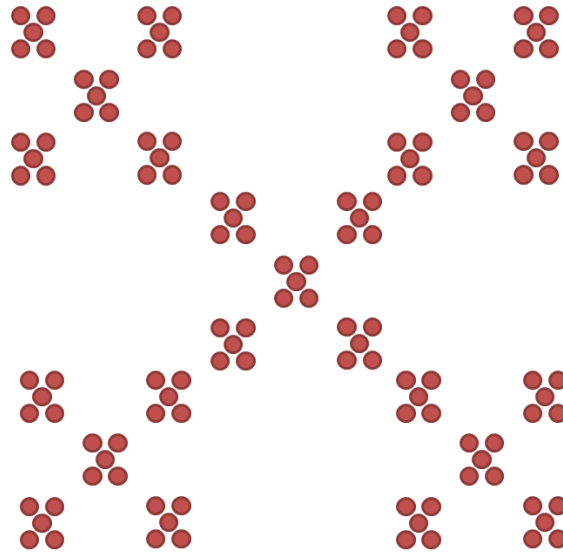
### Dot Pattern 30

How many dots do you see? How do you see them? Does anybody see them differently?



Multiplication Number Talk 01 (<https://fivetwelvethirteen.wordpress.com/category/number-talks/>)

How many dots do you see? How do you see them? Does anybody see them differently?





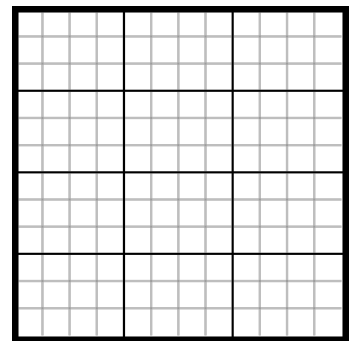
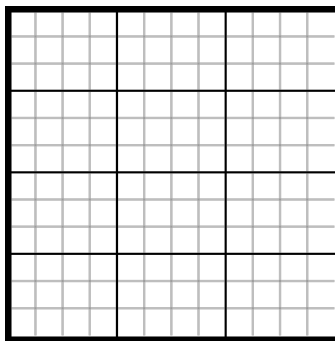
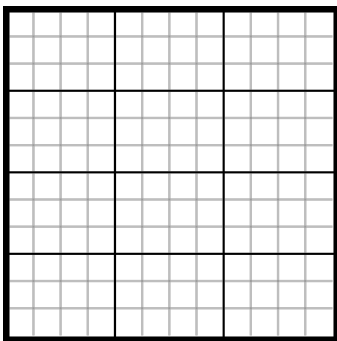
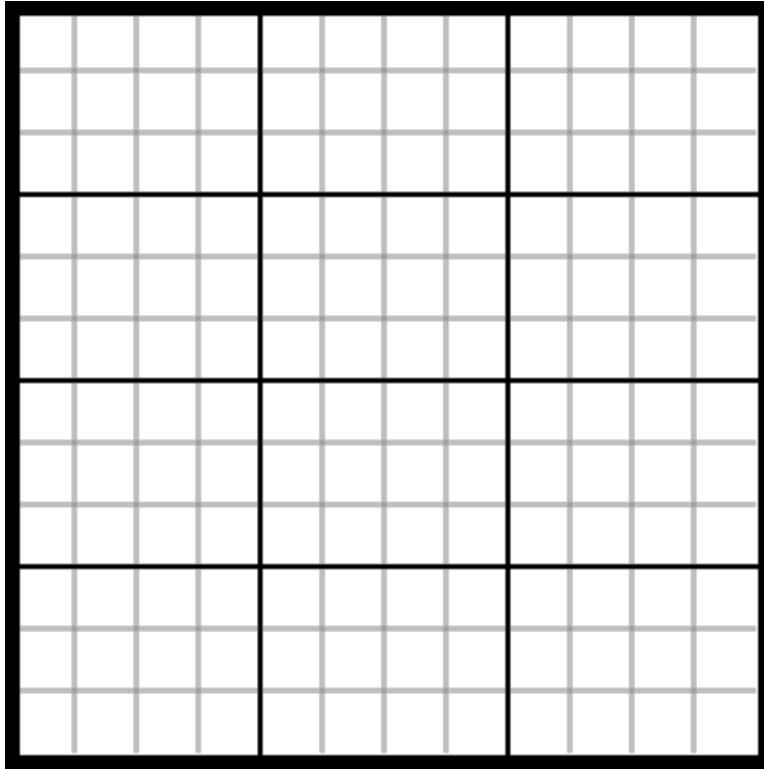
Multiplication Number Talk 02 (<http://www.visualpatterns.org/81-100.html>)

How many dots do you see? How do you see them? Does anybody see them differently?



Multiplication Number Talk 03 (<https://fivetwelvethirteen.wordpress.com/category/number-talks/>)

How many 1x1 squares do you see? How do you see them? Does anybody see them differently?



# Building Mental Images for Multiplication

Equal Groups

**How many purple dots are there altogether? How do you see them?**

