SPOT IT!

Each pair of cards has one and only one picture in common.

Analyze the Spot It deck

- How many cards are there?
- How many different pictures are there?

Analyze the Spot It deck with two pictures on each card

Hint: You will need three different pictures total!

- How many total cards would you need?
- How many total pairings (sets of two pictures)?
- How many pairings on each card?
- Draw the deck

Analyze the Spot It deck with three pictures

Hint: You will need seven different pictures total!

- How many total cards?
- How many total pairings (sets of two pictures)?
- How many pairing on each card?
- Draw the deck

Analyze the Spot It deck with four pictures

Hint: You will need thirteen different pictures total!

- How many total cards?
- How many total pairings would there be?
- How many pairings on each card?
- Draw the deck

Analyze the Spot It deck with five pictures
Hint: You will need twenty one different pictures total!

- How many total cards?
- How many total pairings would there be?
- How many pairings on each card?

Number of pictures per card	Total number of cards
2	
3	
4	
5	
N cards	

Can you generate a rule that would tell how many cards you would need given n number of pictures per card?