If there are **4 people...**	Can each person high five exactly **1** other person?	Can each person high five exactly **2** different people?	Can each person high five exactly **3** different people?	Can each person high five exactly **4** different people?	Can each person high five exactly **5** different people?
	Yes No	Yes No	Yes No	Yes No	Yes No
	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?
If there are **5 people...**	Can each person high five exactly **1** other person?	Can each person high five exactly **2** different people?	Can each person high five exactly **3** different people?	Can each person high five exactly **4** different people?	Can each person high five exactly **5** different people?
	Yes No	Yes No	Yes No	Yes No	Yes No
	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?
If there are **6 people...**	Can each person high five exactly **1** other person?	Can each person high five exactly **2** different people?	Can each person high five exactly **3** different people?	Can each person high five exactly **4** different people?	Can each person high five exactly **5** different people?
	Yes No	Yes No	Yes No	Yes No	Yes No
	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?	If yes, how many total high fives will take place?

Here's a more compact way of recording the information from the front side of the handout.

For each high five challenge:
- If it's **possible**, write the total number of high fives that will occur.
- If it's **impossible,** write an **X.**

		How many different people does each person high five?							
		1	2	3	4	5	6	7	8
How many people are there?	4								
	5								
	6								
	7								
	8								