



## Love is in the air

**Activity 1: Discuss the following questions:**

### 1A: Love, oh love!

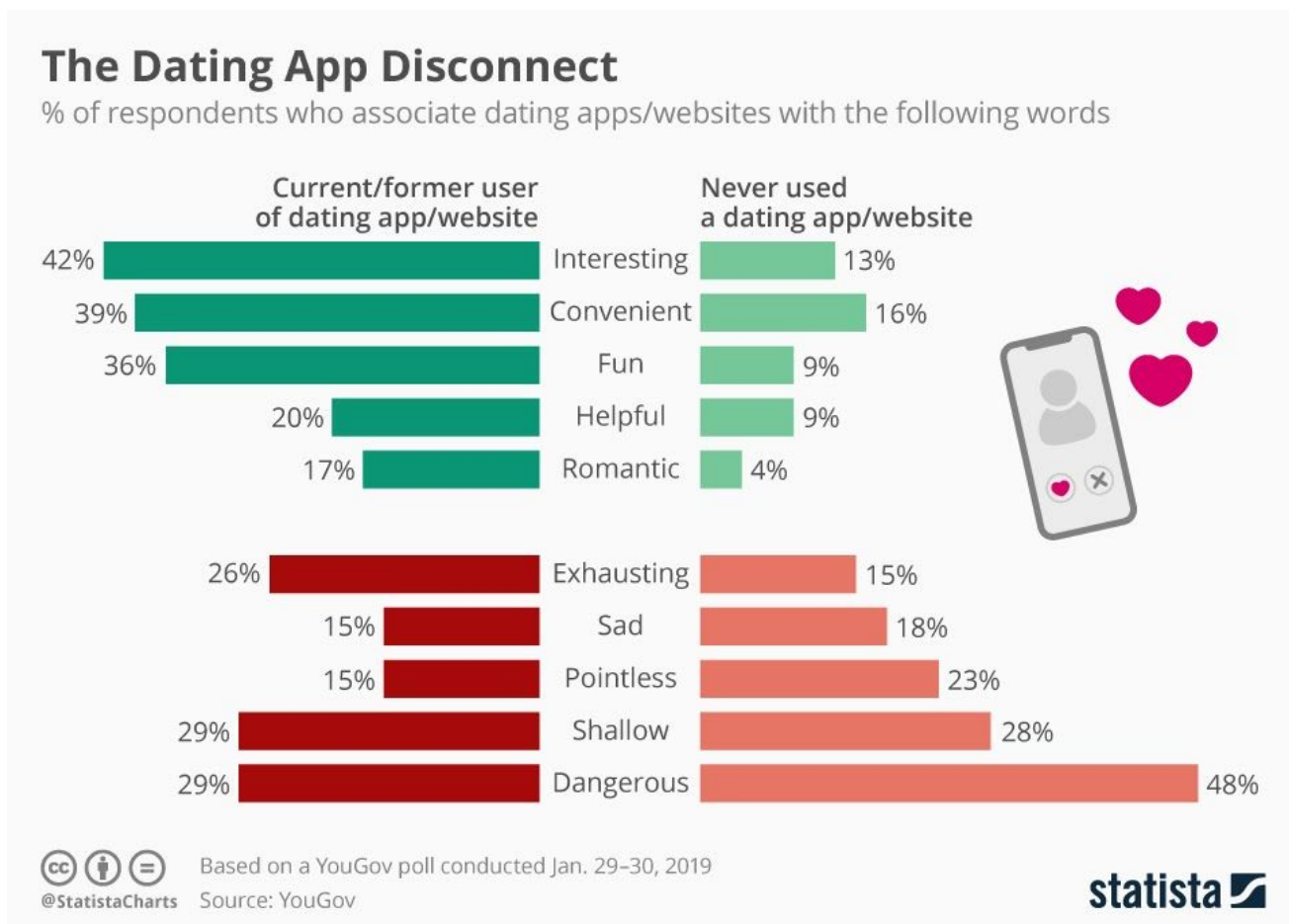
1. What do you think of Valentine's Day? Do you celebrate it?
2. Do you believe in love at first sight? Have you ever fallen in love at first sight?
3. Do you think that you can predict when you are going to fall in love? If yes, how?
4. Do you think that you can mathematically predict when you are going to fall in love?
5. How can you find a perfect partner?

### 1B: Successful (online) dating

1. Have you ever subscribed to an online dating site? Do you think such pages help people find their Mr. or Mrs. Right?
2. Do you know a couple who met on an online dating site?
3. How can you be successful on an online dating site? Prepare three tips for people who want to create their dating profile:
  - 1.
  - 2.
  - 3.
4. What do you associate online dating with? Choose your answer from the words below. Ask your partner about their opinion.

interesting	convenient	fun	helpful	romantic
exhausting	sad	pointless	shallow	dangerous

5. Analyse the infographics and choose three most surprising facts.



1.
2.
3.

## Activity 2: TED Talk by Hannah Fry

2A: Match the words to create fixed expressions and explain their meaning.

1.	arms	A	dating
2.	long-	B	go
3.	to let something	C	skills
4.	online	D	race
5.	to crop	E	term
6.	a roaring	F	success
7.	conversational	G	a photo

**2B: Find synonyms.**

1.	accuracy	A	very surprising
2.	dashing	B	precision
3.	deliberately	C	to be very successful
4.	dull	D	in an open and honest manner
5.	frankly	E	to cut the edges of something
6.	startling	F	on purpose
7.	stock market	G	boring
8.	to be a roaring success	H	to refuse
9.	to crop (e.g. a photo)	I	stock exchange
10.	to reject	J	attractive

**2C: Watch the TED Talk „The mathematics of love” by Hannah Fry and answer the following questions:**

1. "Why I don't have a girlfriend" is a title of a  
a) poem b) book c) scientific article.
2. What are the features of Peter's potential girlfriend?
3. How many potential partners does Peter have in the United Kingdom?
4. Mathematicians tend not to go out because they know how little statistical chance they have to succeed. T/F
5. Why is mathematics so powerful?
6. If you are attractive, you are popular on dating sites and you get a lot of messages. T/F
7. Everyone agrees that Sarah Jessica Parker is beautiful. T/F
8. How would Portia de Rossi and Sarah Jessica Parker score for their beauty?
  - a) They would have the same average score and the same individual scores.
  - b) They would have the same average score but different individual scores.

9. Why is it better to be considered beautiful as well as ugly by the people (in contrast to being considered beautiful by everyone)?
10. Which pictures people choose for an online dating website? Give examples.
11. In order to be successful at dating sites you should:
  - a) hide the things that make you different.
  - b) emphasize the things that make you different.
12. How can you (mathematically) maximize your chances of picking a perfect partner?
13. The optimal stopping theory guarantees a 100% success rate. T/F
14. How many couples get divorced in the US?
15. What did John Gottman record in his study?
16. According to the Gottman's findings, couples who get into spiral of negativity have bigger chances of getting divorced. T/F
17. If you want to avoid divorce, you can't let things go. T/F
18. Couples with a low level of negativity threshold are more likely to get divorced. T/F

**2D: After watching:**

1. What do you think of Hannah's tips on dating and successful relationships? Do you agree with them?
2. Do you believe in the optimal stopping theory described by Hannah? Would you like to test it?