# Find the best song for this phrase!

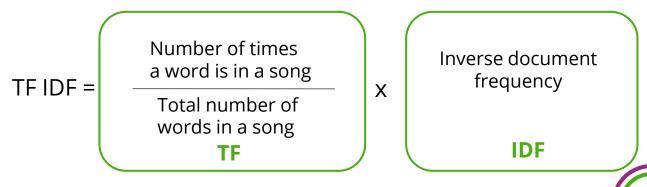
## Keep your head up

Q

Step 1) Find the IDF for each word in the phrase

Word	KEEP	YOUR	HEAD	UP	
IDF					

**Step 2)** Calculate the TF-IDF for each of the songs Find the word count and total word count for each song on the posters!



**Step 3)** Calculate the total TF-IDF for each song using the tables below! The highest score is the best match!

Song 1: Dance the night

Word Count
TF
Word Count
Total word count:

Word Count
Total word count
(from step 1)

KEEP

YOUR

HEAD

Total TF-IDF
(Sum of TF-IDF)

S	on	q	2:	FI	O	W	er	S

<b>Tota</b>	word	count:	

	Word Count	TF  Word Count  Total word count for song	IDF (from step 1)	<b>TF-IDF</b> (TF x IDF)
KEEP				
YOUR				
HEAD				
UP				
			Total TF-IDF (Sum of TF-IDF)	

#### Song 3: Let it go

#### Total word count: \_\_\_\_\_

	Word Count	<b>TF</b> Word Count  Total word count for song	IDF (from step 1)	<b>TF-IDF</b> (TF x IDF)
KEEP				
YOUR				
HEAD				
UP				
			Total TF-IDF (Sum of TF-IDF)	

#### Song 4: September

Total	Word	count:
ı Ulai	wolu	Count.

	Word Count	<b>TF</b> Word Count  Total word count for song	IDF (from step 1)	<b>TF-IDF</b> (TF x IDF)
KEEP				
YOUR				
HEAD				
UP				
			Total TF-IDF (Sum of TF-IDF)	

Song 5: Shake it of	Song	<b>5</b> :	Sha	ke	it	off
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<b>Total</b>	word	count:	

	Word Count	TF  Word Count  Total word count for song	IDF (from step 1)	<b>TF-IDF</b> (TF x IDF)
KEEP				
YOUR				
HEAD				
UP				
			Total TF-IDF (Sum of TF-IDF)	

Song 6: We don't talk about Bruno Total word count: \_\_\_\_\_

	Word Count	TF  Word Count  Total word count for song	IDF (from step 1)	<b>TF-IDF</b> (TF x IDF)
KEEP				
YOUR				
HEAD				
UP				
			Total TF-IDF (Sum of TF-IDF)	

	Total TF- IDF
Dance the night	
Flowers	
Let it go	
September	
Shake it off	
We don't talk about Bruno	

### **Best suggestion!**