

Problem Solving

Place Value Consolidation – Year 6

National Curriculum Objectives

Mathematics Year 6: (6N2) [Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit](#)

Mathematics Year 6: (6N4) [Round any whole number to a required degree of accuracy](#)

Mathematics Year 6: (6N5) [Use negative numbers in context, and calculate intervals across zero](#)

Mathematics Year 6: (6N6) [Solve number and practical problems that involve all of the above](#)

About This Resource

This resource is aimed at Year 6 Expected and has been designed to give children the opportunity to consolidate the skills they have learned in Autumn Block 1 Place Value.

The questions are based on a selection of the same ‘small steps’ that are addressed in the block, but are presented in a different way so children can work through the pack independently and demonstrate their understanding and skills.

Small Steps

Compare and order any number

Round any number

Negative numbers

More [Year 6 Place Value](#) resources.

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Your record company 'Drop the Mic Records' is preparing for the end of year awards show – an event that celebrates the best artists on their books. The managing director has given you the data for the top ten artists and wants you to decide which four have been the most successful to be nominated for the awards.



1. The first category is Most Streamed Artist.
Rank the artists based on the number of tracks streamed from most streams (1) to fewest streams (10).

Artist	Tracks Streamed	Ranking
Jerome De Souza	8,434,679	
Mylene Robb	8,589,956	
EEzee	7,465,767	
Shannon Grace	7,465,980	
Xtream	9,003,004	
Bobbie Fry	9,003,998	
Ape Shape	4,678,567	
Northern Quarter	8,898,435	
Revolving Doors	8,989,345	
STEAL	9,304,098	

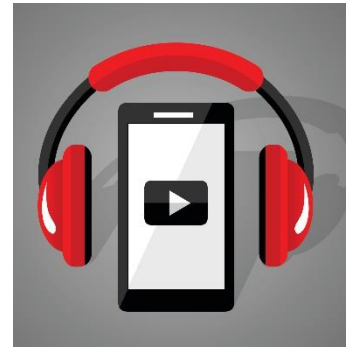
Complete the prompt card below for the presenter:

 The top four artists nominated for the 'Most Streamed Artist', in order of streamed tracks are: 

4 th	<input type="text"/>
3 rd	<input type="text"/>
2 nd	<input type="text"/>
1 st	<input type="text"/>

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2. Drop the Mic Records wanted to know how many people listened to their top 5 artists on different radio stations. They Asked have National Radio to run a survey to help them! National Radio ran a text survey to find the fans' choice and the results are in...

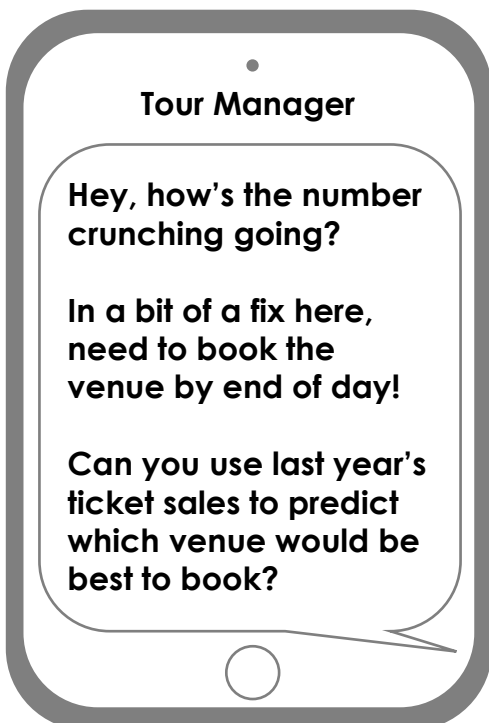


Round the numbers to the nearest 10,000 to find out who is this year's fans' choice.

Artist	Text Votes	Rounded Numbers
Bobbie Fry	834,865	
Northern Quarter	846,978	
Revolving Door	823,500	
STEAL	844,400	
Xtream	832,450	

The Fans' Choice Award goes to....

3. **BING!** A text message has landed in your inbox from your tour manager.



The following venues are available to book and have a variety of seating capacities:

- London Arena seats fifty thousand
- Manchester Dome seats forty-five thousand
- Birmingham Concert Hall seats thirty-eight thousand
- Edinburgh Court seats forty-two thousand
- Leeds Arena seats forty-seven thousand

Turn over for ticket sales data...

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Round the ticket sales to the nearest thousand and decide which venue would be able to accommodate any of the artists.

Remember to write your answer in the text message to reply.

Artist	Ticket Sales	Rounded to nearest thousand
Jerome De Souza	44,560	
Mylene Robb	46,890	
EEzee	36,009	
Shannon Grace	21,906	
Xtream	39,020	
Bobbie Fry	37,356	
Ape Shape	41,498	
Northern Quarter	34,976	
Revolving Doors	46,875	
STEAL	47,346	

Reply to: Tour Manager

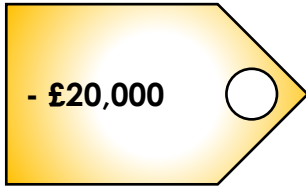
Hi, judging by how many people bought tickets for each artist last year, I think

would be the best place. Let's hope it's still available!

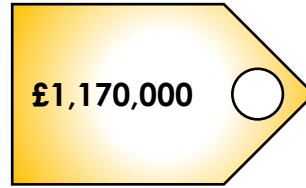


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4. Paying to rent the arena has taken a toll on the music company's bank account and they are now in negative numbers!



**Currently in the
bank**



**Estimated ticket
sales**

If they achieve the estimated amount of money from the ticket sales, how much money will they have?

5. The record company will only consider the event a success if they have at least £1,000,000 in the bank at the end of the awards show. If they are to reach their target, what is the least amount of money they need to earn from ticket sales?