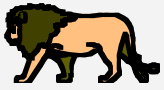# A Day Out

Mr Richards, a teacher from Bosworth School, plans to take 30 students on a school trip. Here are the places they could visit.

Growlets Zoo	Prison Museum	Space Science Show
36 miles from Bosworth Entrance fee $2.50 per person	30 miles from Bosworth Entrance fee $6 per person	10 miles from Bosworth Entrance fee $10 per person

The class vote on which place to visit.
Here are the results:

Name	First Choice	Second choice	Name	First Choice	Second choice
Olivia	Zoo	Space show	Jack	Prison museum	Zoo
Grace	Space show	Prison museum	Thomas	Zoo	Prison museum
Jessica	Prison museum	Zoo	Joshua	Zoo	Prison museum
Ruby	Zoo	Space show	Oliver	Space show	Prison museum
Emily	Space show	Prison museum	Harry	Prison museum	Zoo
Sophie	Prison museum	Zoo	James	Zoo	Space show
Chloe	Prison museum	Space show	William	Space show	Space show
Lucy	Prison museum	Space show	Samuel	Zoo	Prison museum
Lily	Space show	Prison museum	Daniel	Zoo	Space show
Ellie	Space show	Prison museum	Charlie	Prison museum	Prison museum
Ella	Zoo	Space show	Benjamin	Space show	Zoo
Charlotte	Space show	Prison museum	Joseph	Zoo	Prison museum
Katie	Space show	Prison museum	Callum	Zoo	Prison museum
Mia	Zoo	Space show	George	Prison museum	Space show
Hannah	Zoo	Space show	Jake	Space show	Prison museum

Here are some further facts about the trip.

The bus company charge $6 per mile. The school fund will pay the first $200 of the trip. Teachers will go free. Each student will pay the same amount.

1. Taking both first and second choices into account, where should they go for the trip? Explain clearly how you make your decision.

2. How much will each person need to pay to go on the trip you have chosen? Explain carefully how you decide.

	A Day Out	Points	Section points
1.	Counts the number of First and Second choices for each venue. Allows, say 2 points for First choice and 1 point for Second choice we get:	2	
	First choice Second choice Total Points Zoo 12 5 29 Prison 8 14 30 Space 10 11 31	3	
	Decides that Space is the favorite choice. Accept alternative choices based on alternative decisions.	1	6
2.	The total cost is Entrance fee 30 x $10 = $300 Bus 10 x 2 x $6 = $120 (accept $60) Minus $200 **$220** (accept $160)	1 1 1	
	Cost per student = $220 ÷ 30 = **$7.22** (accept $5.34)	1	
	Accept alternative costs based on alternative choices.		4
	Total		10