



Maths Projects

Year 6



Seaside Trip



Task 1

Firstly, we need to decide where we are going. The teachers have found different areas to visit and their respective distances from the school. They have used $1.6 \text{ km} = 1 \text{ mile}$ / $0.6 \text{ miles} = 1 \text{ km}$ to show the conversion. The only problem is, they've spilt coffee on the table.

Can you complete the table, to one decimal place?

Kilometres	Miles
	1
11.2	
	12
	14
41.6	
59.2	
	49
150.4	
	105
720	
3	
	4.4
16	
21	
	17.5
	38.8
85	
140	
	130

Task 2

Different bus companies have given us quotes for the cost of travelling there.

The first company is going to charge £5.98 per child and they can offer a discount of 21%.
What is the total cost?

The second company is going to charge £3.72 per child with a £50 fee for petrol and they can offer a discount of 14%. What is the total cost?

The third, and final company is going to charge £4.36 per child and they can offer a discount of 18%. What is the total cost?

Task 3

When we get there, the school is going to buy 100 ice creams.

The choices will be vanilla (a) and chocolate (b), the formula teachers will be using is:

$$3a + b = 100 \quad a < 21 \quad b > 30$$

Can you work out the different amounts of flavours the teachers can buy?

Task 4

As part of the trip, the children would like to have lunch.

Can you complete this tally and create a pie chart showing which lunch the class would prefer?

Meal	Tally
Fish and chips	
Chicken and bacon pasta salad	
Cheese and ham toastie	
Veggie burger and chips	
Cheese and tomato pizza	

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Can you complete the table, to one decimal place?

Kilometres	Miles
1.6	1
11.2	6.7
19.2	12
22.4	14
41.6	25
59.2	35.5
78.4	49
150.4	90.2
168	105
720	432
3	1.8
7.0	4.4
16	9.6
21	12.6
28	17.5
62.1	38.8
85	51
140	84
208	130

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Total depends on amount of children in class

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Can you work out the different amounts of flavours the teachers can buy?

$$a = 20 \quad b = 40$$

$$a = 19 \quad b = 43$$

$$a = 18 \quad b = 46$$

$$a = 17 \quad b = 49$$

$$a = 16 \quad b = 52$$

$$a = 15 \quad b = 55$$

$$a = 14 \quad b = 58$$

$$a = 13 \quad b = 61$$

$$a = 12 \quad b = 64$$

$$a = 11 \quad b = 67$$

$$a = 10 \quad b = 70$$

$$a = 9 \quad b = 73$$

$$a = 8 \quad b = 76$$

$$a = 7 \quad b = 79$$

$$a = 6 \quad b = 82$$

$$a = 5 \quad b = 85$$

$$a = 4 \quad b = 88$$

$$a = 3 \quad b = 91$$

$$a = 2 \quad b = 94$$

$$a = 1 \quad b = 97$$

$$a = 0 \quad b = 100$$

Task 4

As part of the trip, the children would like to have lunch.

Can you complete this tally and create a pie chart showing which lunch the class would prefer?

Meal	Tally
Fish and chips	
Chicken and bacon pasta salad	
Cheese and ham toastie	
Veggie burger and chips	
Cheese and tomato pizza	

This depends upon number of children in class and their choices.

Has the tally information been correctly represented within the pie charts?