Varied Fluency Step 7: Draw Pie Charts

National Curriculum Objectives:

Mathematics Year 6: (6S1) Interpret and construct pie charts and line graphs and use these to solve problems

Differentiation:

Developing Questions to support converting data into and drawing pie charts using up to 4 sets of data which will total 36 or 360.

Expected Questions to support converting data into and drawing pie charts with up to 6 sets of data which will total a number divisible by 6 or convert to a percentage which is a multiple of 10.

Greater Depth Questions to support converting data into and drawing pie charts with up to 6 sets of data which will total a number divisible by any factor of 360 or convert to a percentage which is a multiple of 5.

More <u>Year 6 Statistics</u> resources.

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Varied Fluency – Drawing Pie Charts – Teaching Information



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Varied Fluency – Drawing Pie Charts – Year 6 Expected



Draw Pie Charts

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Varied Fluency – Drawing Pie Charts – Year 6 Greater Depth

Varied Fluency Drawing Pie Charts

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Developing

Hair colour of Year 6 children			
Colour	Number	Degrees	
Brown	15	150 [°]	
Blonde	10	100 [°]	
Red	4	40°	
Other	7	70°	
Total	36	360°	



3a.



36 children's Favourite Ice-cream					
Vanilla	Chocolate			Stra	wberry
6	6	6	6	6	
60°			180°		120°



Expected 4a.

•	Favourite crisps of Year 6 children				
	Flavour	Number	Degrees		
	Salt and Vinegar	26	130°		
	Cheese and Onion	18	90°		
	Prawn Cocktail	15	75°		
	Ready Salted	7	35°		
	Beef and Onion	6	30°		
	Total	72	360°		

5a.



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6	a	
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60	60 Children's Favourite Drinks				
Milk	Orange	Water	Coke		
10	20	10	20		
60°	120 [°]	60°	120 [°]		



Developing

•	Favourite colours of Whole School					
	Colour Number Degrees					
	Blue	135	135°			
	Pink	45	45 [°]			
	Red	105	105°			
	Orange	75	75°			
	Total	360	360°			



3h									
00.		36 children's Favourite Sport							
	Tennis		Netball			Football			_
	4	4	4	4	4	4	4	4	4
		80°		1	20 °			1	60°



Expected

4 b.	Favourite animal of Year 5 children					
	Animal Percentage Degrees					
	Polar Bear	20%	72 [°]			
	Giraffe	20%	72 [°]			
	Monkey	10%	36°			
	Elephant	20%	72 [°]			
	Tiger 30% 108°		108 [°]			
	Total	100%	360 °			

5b.



6b.

7	72 Children's Favourite Pets				
Dog	Cat	Rabbit	Snake	Hamste	
32	18	10	4	8	
160°	90°	50°	20°	40°	





Varied Fluency – Drawing Pie Charts ANSWERS

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Greater Depth 7a. Equation of the second sec

Favourite dog breeds of Year 6			
Breed	Number	Degrees	
Golden Retriever	18	72°	
Border Collie	25	100 [°]	
Rottweiler	4	16°	
Huskie	11	44°	
Jack Russel	9	36 [°]	
Spaniel	23	92°	
Total	90	360°	

8a.



9a.

Colour of cars in a school car park					
Red	Blue	Black	Silver	Green	White
28	21	19	11	6	5
112°	84 °	76 [°]	44 [°]	24 °	20 [°]



Gree	<u>ater</u>	<u>Depth</u>
7b.		Places v

Places visited by Year 6						
%	Degrees					
35%	126					
25%	90 °					
10%	36°					
5%	18°					
10%	36°					
15%	54 [°]					
100%	360°					
	% 35% 25% 10% 5% 10% 15%					

8b.



9b.

Number of people arriving at the zoo at different times of the day						
10am	11am	12pm	1pm	2pm	3pm	
67	39	34	22	11	7	
134 [°]	78 [°]	68°	44 °	22°	14°	



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