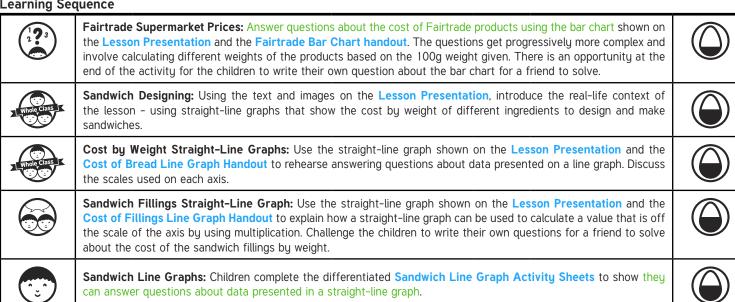
Statistics: Sandwich Line Graphs

Aim: Solve comparison, sum and difference problems using information presented in a line graph. I can answer questions about data presented in a straight-line graph.	Success Criteria: I can interpret data in bar charts and line graphs. I can identify the features of a straight-line graph. I can answer comparison, sum and difference questions about data presented in a straight-line graph.	Resources: Lesson Pack
	Key/New Words: Straight-line graph, bar chart, data, axis.	Preparation: Fairtrade Bar Chart Handout - as required Cost of Bread Line Graph Handout - as required Cost of Fillings Line Graph Handout - as required Differentiated Sandwich Line Graphs Activity Sheets - one per child Cost of Salads Line Graph Handout - as required

Prior Learning:

It will be helpful if children have experience of interpreting data in bar charts and line graphs, and plotting coordinates in the first quadrant.

Learning Sequence







Interpret the double straight-line graph correctly to answer questions about the cost and weight of sandwich ingredients.



Interpret the triple straight-line graph correctly to answer questions about the cost and weight of sandwich ingredients.



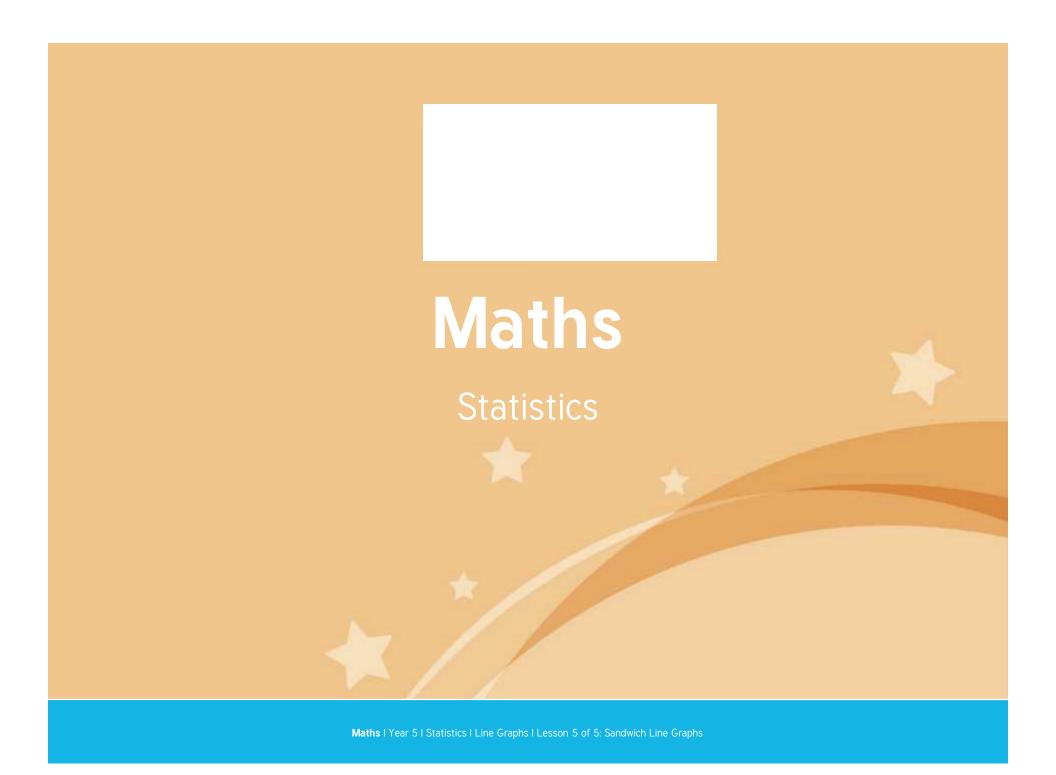
Interpret the quadruple straight-line graph correctly to answer questions about the cost and weight of sandwich ingredients.

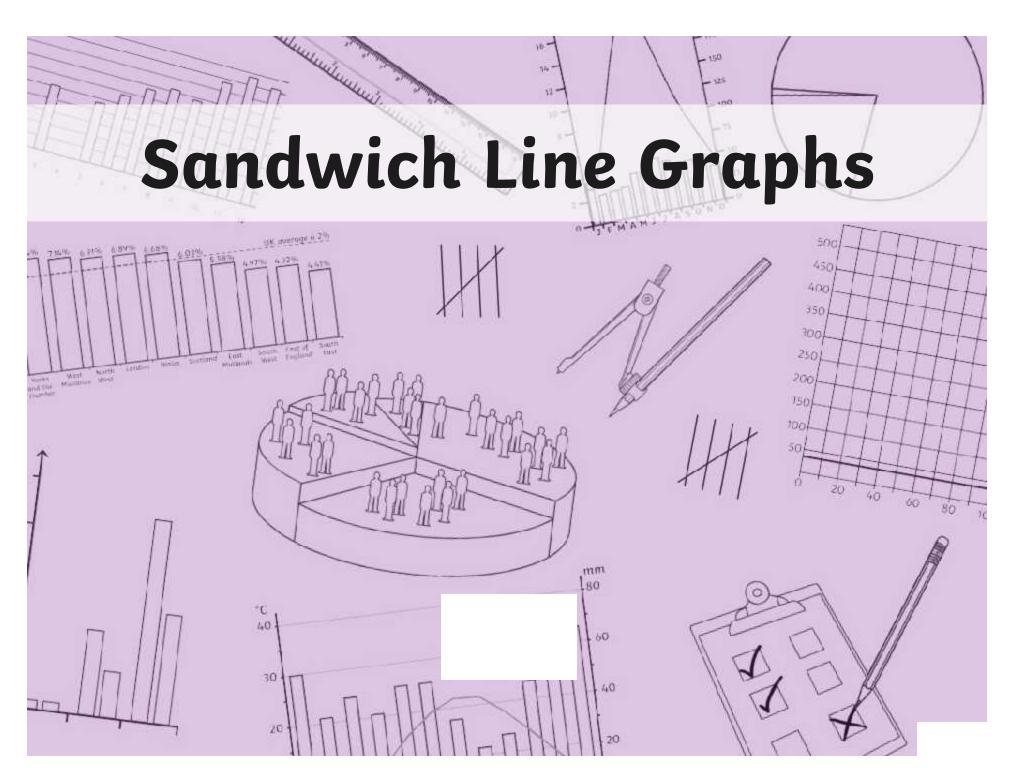


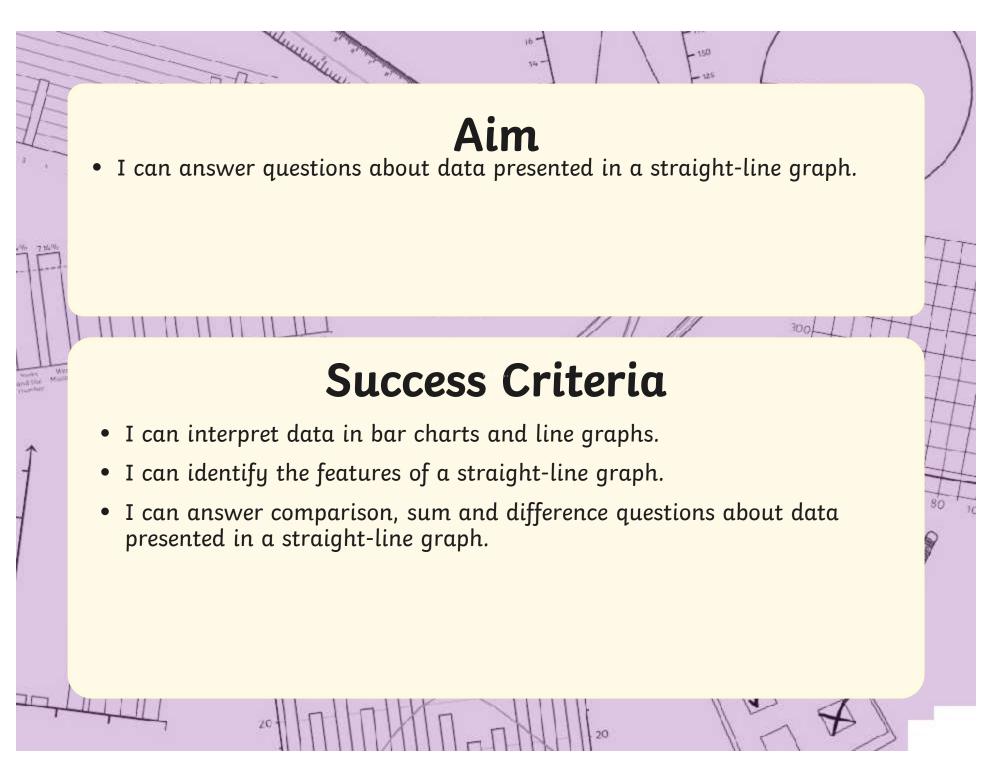
Super Salad True or False: Use the straight-line graph shown on the Lesson Presentation and the Cost of Salads Line Graph Handout to identify if the statements about the cost and weight of the salad ingredients are true or false.

Masterit

Doit: Use the straight-line graphs contained in this lesson to design and cost their own sandwich and hold a sandwich making party. **Explore**it: Use a supermarket website to find the price of different products based on their weights and draw straight line graphs to show the data.

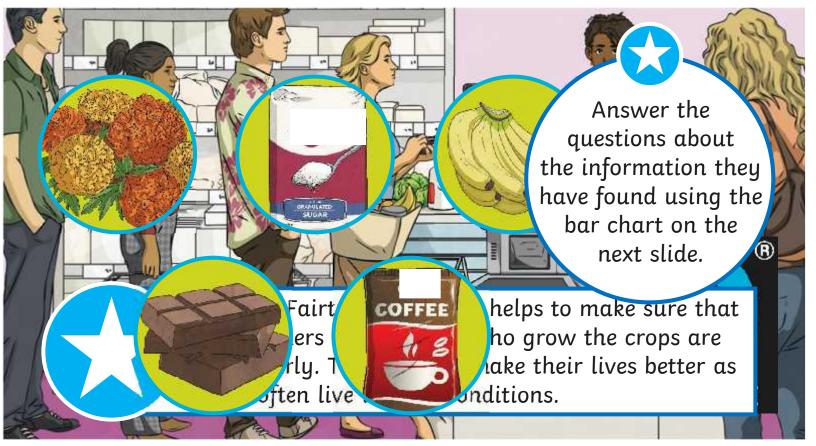






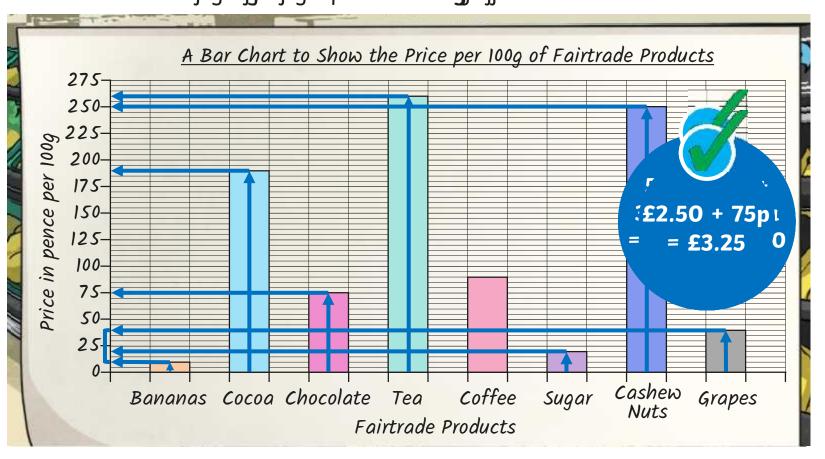


Take a look around any supermarket and you will see many items with a Fairtrade sticker on them.



Fairtrade Supermarket Prices

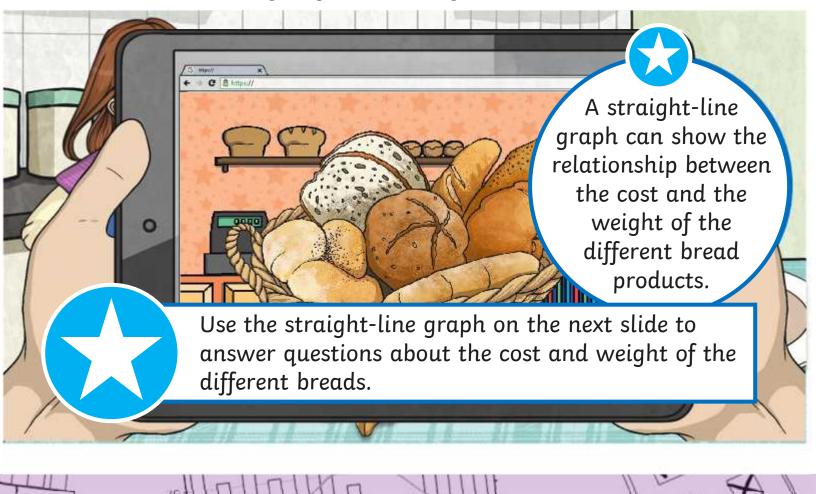
Write you the desire strong of the control of the c





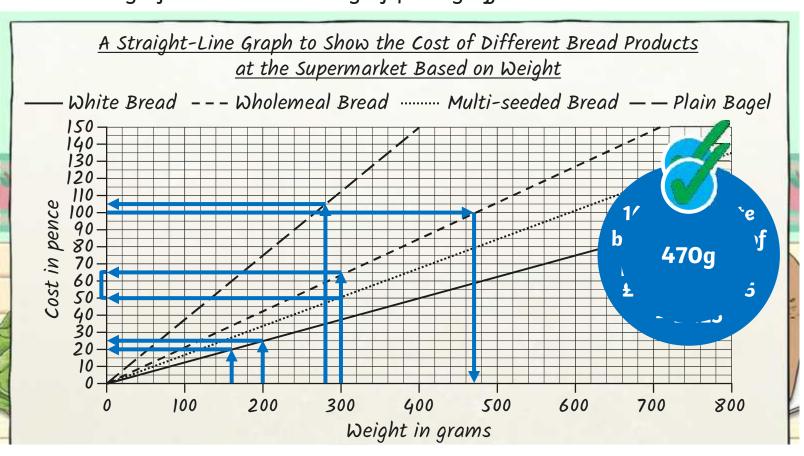
Whole Class

In their design and technology lessons, Class 5 are designing and making their own sandwiches.



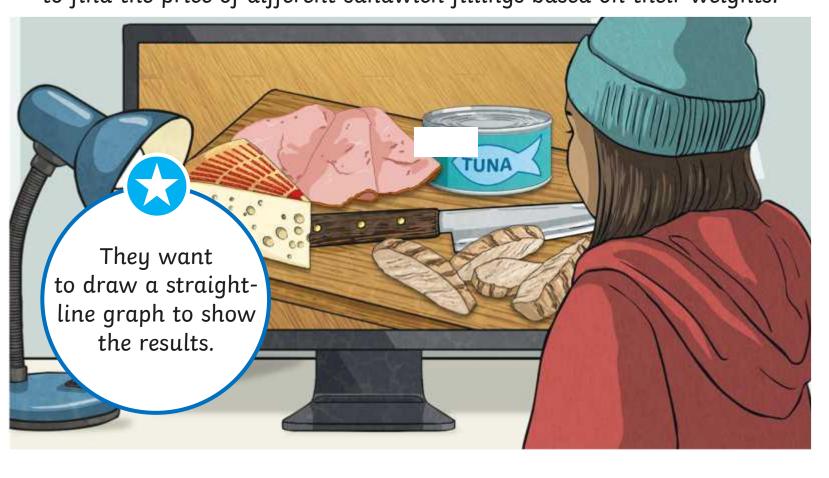
Cost by Weight Straight-Line Graph

Approximately how which the object which the bread approximately how which it approximately for £1?



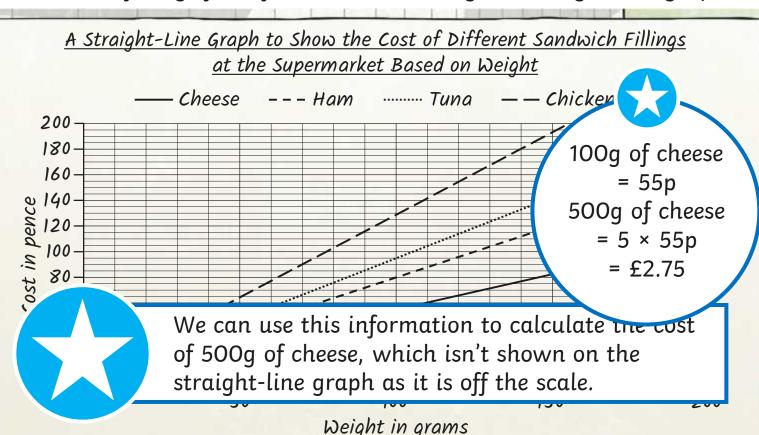


The children in Class 5 also use the supermarket website to find the price of different sandwich fillings based on their weights.



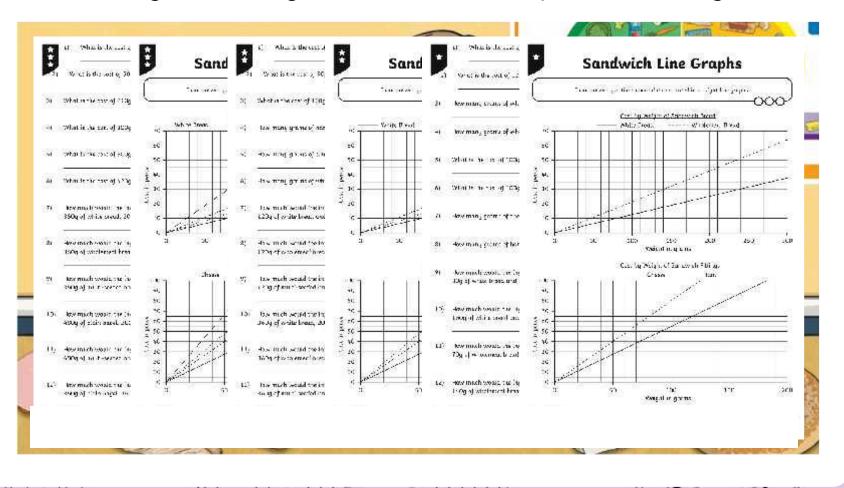
Sandwich Fillings Straight-Line Graph

Write your own question about the price by weight of the different This straight-line graph tells us that 100g of cheese costs 35p. sandwich fillings for a friend to solve using the straight-line graph.



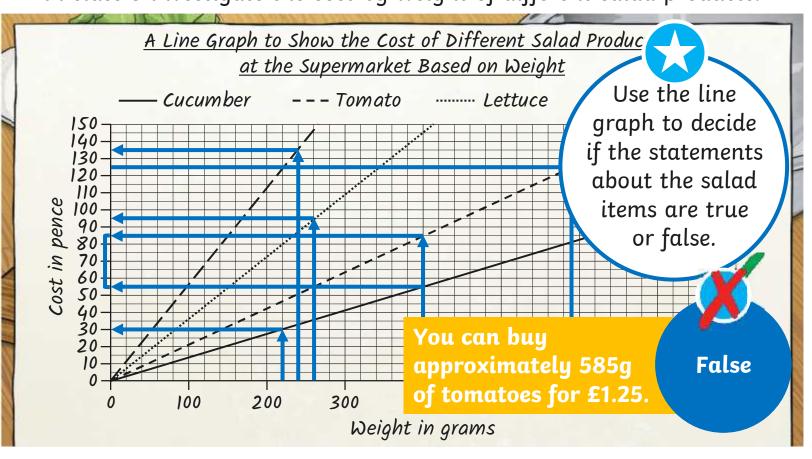


Use your stunning statistics skills to complete this activity:

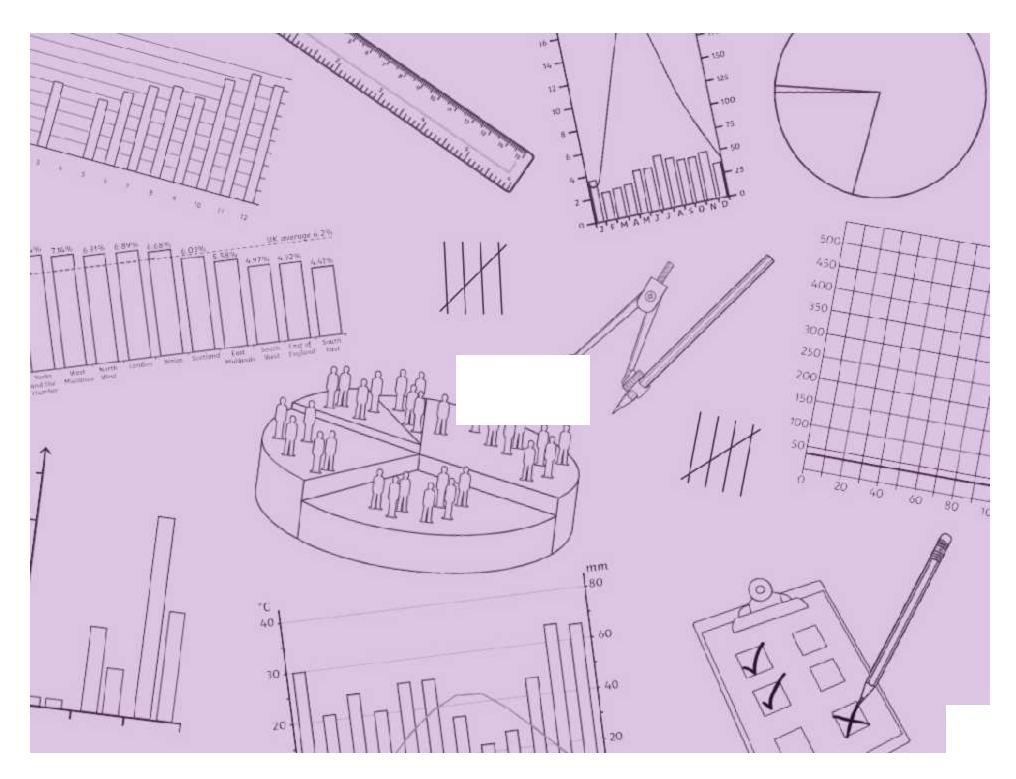


Super Salad True or False

In the final stage of planning their sandwiches, the children likewalffebenden with a being the language of planning their sandwiches, the children in class 5 investigate the cost by weight of different salad products.



Aim I can answer questions about data presented in a straight-line graph. Success Criteria I can interpret data in bar charts and line graphs. I can identify the features of a straight-line graph. I can answer comparison, sum and difference questions about data presented in a straight-line graph.



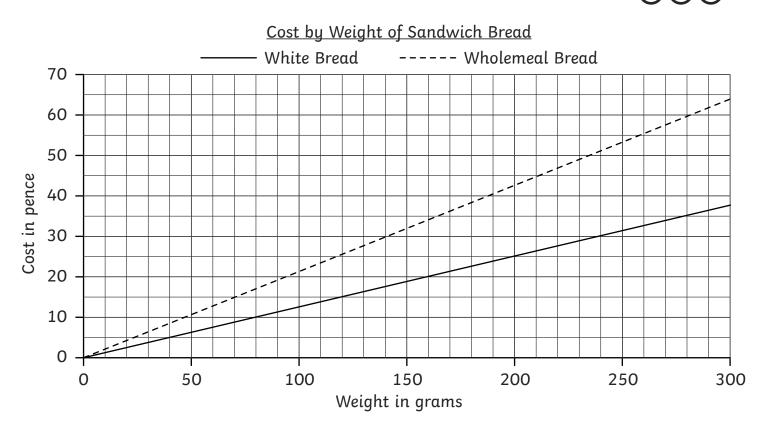
Regent Studies | www.regentstudies.com

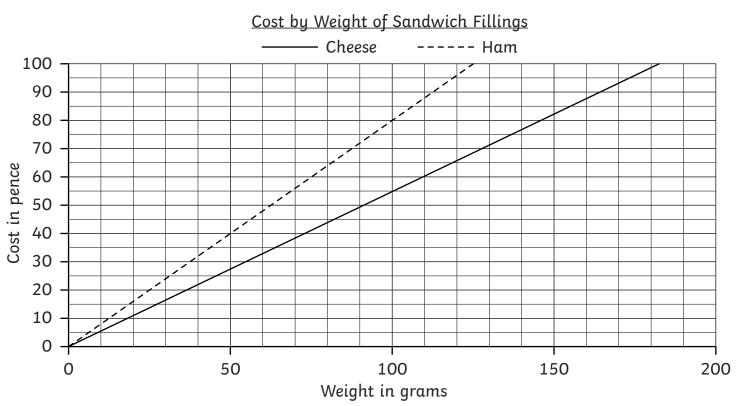
Aim: I can answer questions about data presented in a straight-line graph.				Date:					
							Support:		
Success Criteria	Ме	Friend	Teacher	Т	PPA	s	I	AL	GP
I can interpret data in bar charts and line graphs.				Note	s/Eviden	ce			
I can identify the features of a straight-line graph.									
I can answer comparison, sum and difference questions about data presented in a straight-line graph.									
Next Steps			1						
)									
J									
		Т	Teacher				ı	Independent	
		PPA		naration	and Asses	sment	AL	Adult Led	-
		S	Supply	-paration	a.ta / 10000			Guided Prac	tice

Aim: I can answer questions about data presented in a straight-line graph.				Date:	Date:					
				Deliv	ered By:		Supp	ort:		
Success Criteria	Ме	Friend	Teacher	т	PPA	S	I	AL	GP	
I can interpret data in bar charts and line graphs.				Notes	s/Eviden	ce				
I can identify the features of a straight-line graph.										
I can answer comparison, sum and difference questions about data presented in a straight-line graph.										
Next Steps										
J										



I can answer questions about data presented in straight-line graphs.







1)	What is the cost of 120g of white bread?
2)	What is the cost of 120g of wholemeal bread?
3)	How many grams of white bread can be bought for 35p?
4)	How many grams of wholemeal bread can be bought for 40p?
5)	What is the cost of 100g of cheese?
6)	What is the cost of 100g of ham?
7)	How many grams of cheese can be bought for 60p?
8)	How many grams of ham can be bought for 40p?
9)	How much would 80g of white bread and 90g of cheese cost together?
10)	How much would 160g of white bread and 30g of ham cost together?
11)	How much would 70g of wholemeal bread and 110g of cheese cost together?
12)	How much would 140g of wholemeal bread and 50g of ham cost together?



Sandwich Line Graphs **Answers**

Question	Answer					
1. What is t	1. What is the cost of 120g of white bread?					
	ISP					
2. What is t	the cost of 120g of wholemeal bread?					
	25p					
3. How man	y grams of white bread can be bought for 35p?					
	280g					
4. How main for 40p?	ny grams of wholemeal bread can be bought					
	190g					
5. What is t	the cost of 100g of cheese?					
	s s p					
6. What is t	the cost of 100g of ham?					
	80p					
7. How man	ny grams of cheese can be bought for 60p?					
	1109					
8. How man	ny grams of ham can be bought for 40p?					
	50g					
9. How much cheese cost	ch would 80g of white bread and 90g of together?					
	60p					

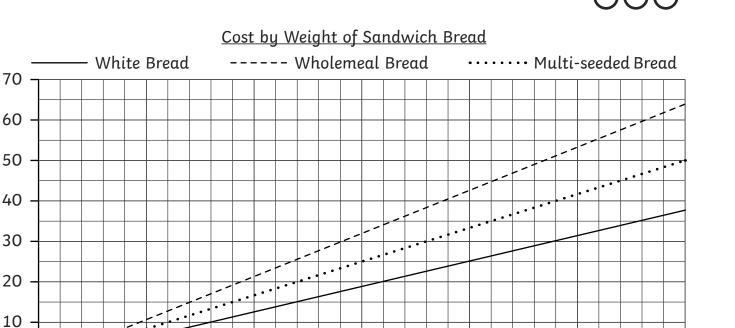
10. How much would 160g of white bread and 30g of ham cost together?			
	45p		
	11. How much would 70g of wholemeal bread and 110g of cheese cost together?		
	75p		
	uch would 140g of wholemeal bread and cost together?		
	70p		

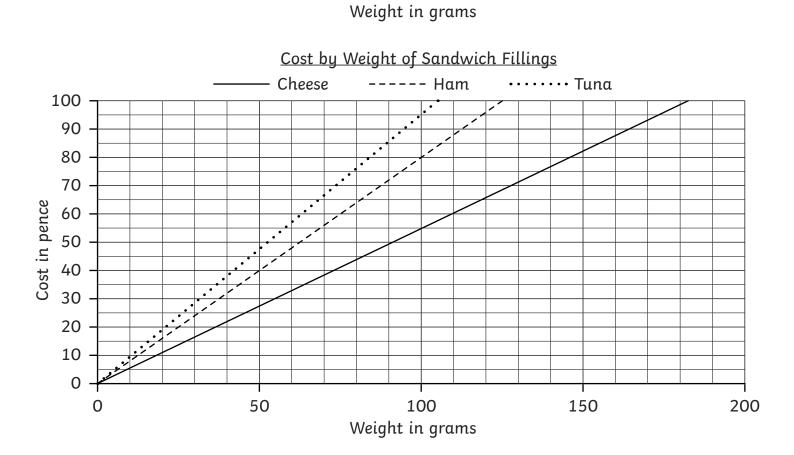


Cost in pence

Sandwich Line Graphs

I can answer questions about data presented in straight-line graphs.







1)	What is the cost of 80g of white bread?	
2)	What is the cost of 90g of cheese?	
3)	What is the cost of 120g of multi-seeded	bread?
4)	How many grams of ham can be bought j	for 40p?
5)	How many grams of tuna can be bought	for 20p?
6)	How many grams of wholemeal bread car	n be bought for 40p?
7)	How much would 120g of white bread an	nd 100g of ham cost together?
8)	How much would 120g of wholemeal bre	ad and 100g of cheese cost together?
9)	How much would 120g of multi-seeded b	read and 100g of tuna cost together?
10)	How much would 360g of white bread, 20	00g of ham and 200g of cheese cost together?
11)	How much would 360g of wholemeal bread	d, 200g of tuna and 300g of ham cost together?
12)	How much would 360g of multi-seeded bread	d, 300g of cheese and 200g of tuna cost together?



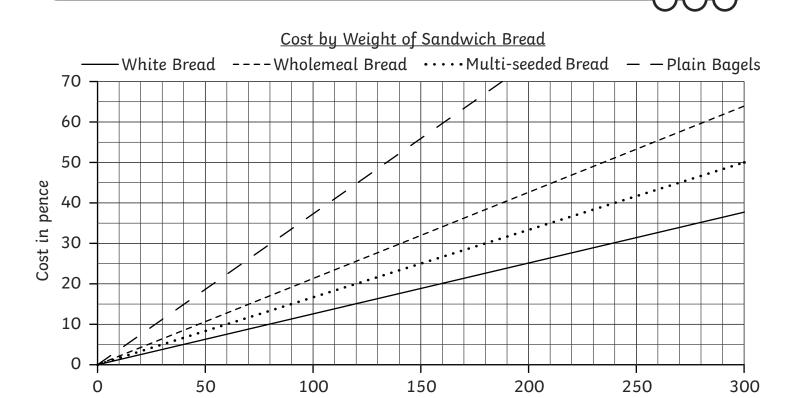
Sandwich Line Graphs **Answers**

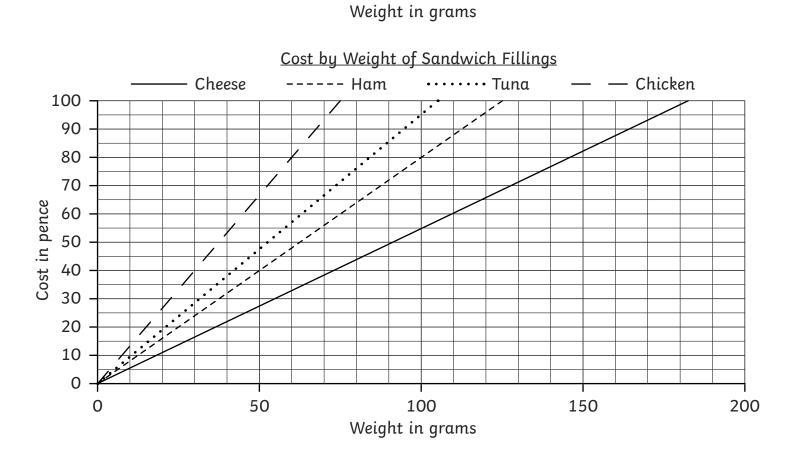
Question	Answer				
1. What is the cost of 80g of white bread?					
	10p				
2. What is t	the cost of 90g of cheese?				
	50p				
3. What is t	he cost of 120g of multi-seeded bread?				
	20p				
4. How man	ny grams of ham can be bought for 40p?				
	50g				
5. How man	ny grams of tuna can be bought for 20p?				
	20g				
6. How main for 40p?	ny grams of wholemeal bread can be bought				
	190g				
7. How much ham cost to	ch would 120g of white bread and 100g of gether?				
	95p				
	8. How much would 120g of wholemeal bread and 100g of cheese cost together?				
	80p				

9. How much would 120g of multi-seeded bread and					
100g of tun	100g of tuna cost together?				
	£1.15				
	10. How much would 360g of white bread, 200g of ham and 200g of cheese cost together?				
	£3.15				
	uch would 360g of wholemeal bread, 200g of 00g of ham cost together?				
	£5.05				
12. How much would 360g of multi-seeded bread, 300g of cheese and 200g of tuna cost together?					
	£4.15				



I can answer questions about data presented in straight-line graphs.







1)	What is the cost of 120g of plain bagels?	
2)	What is the cost of 50g of chicken?	
3)	What is the cost of 210g of multi-seeded br	ead?
4)	What is the cost of 300g of ham?	
5)	What is the cost of 500g of tuna?	
6)	What is the cost of 420g of wholemeal bred	ıd?
7)	How much would 360g of white bread, 200	Og of ham and 200g of cheese cost together?
8)	How much would 360g of wholemeal bread, 30	00g of chicken and 100g of cheese cost together?
9)	How much would 360g of multi-seeded bread,	300g of cheese and 200g of tuna cost together?
10)	How much would 480g of plain bagels, 300	g of ham and 150g of chicken cost together?
11)	How much would 480g of multi-seeded bread,	300g of tuna and 200g of chicken cost together?
12)	How much would 360g of plain bagels, 150	Og of ham and 180g of tuna cost together?

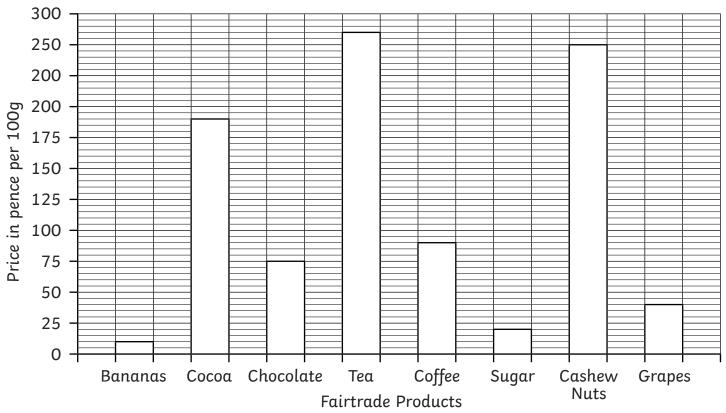


Sandwich Line Graphs **Answers**

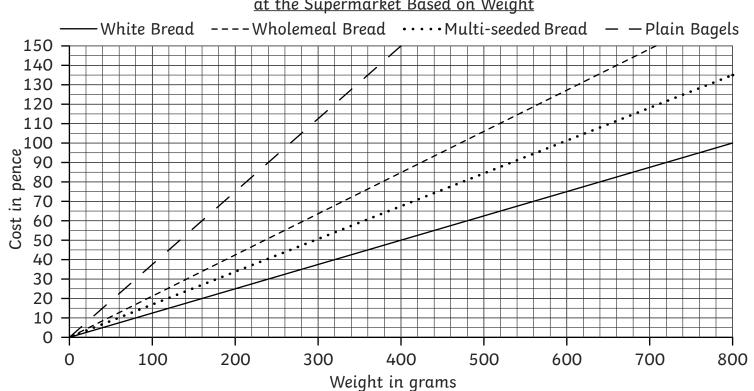
Question	Answer				
1. What is the cost of 120g of plain bagels?					
	45p				
2. What is t	the cost of 50g of chicken?				
	65p				
3. What is t	he cost of 210g of multi-seeded bread?				
	35p				
4. What is t	the cost of 300g of ham?				
	£2.40				
5. What is t	the cost of 500g of tuna?				
	£4.75				
6. What is t	the cost of 420g of wholemeal bread?				
	90p				
	ch 360g of white bread, 200g of ham and ese cost together?				
	£3.15				
	ch would 360g of wholemeal bread, 300g of l 100g of cheese cost together?				
	£5.20				
	ch would 360g of multi-seeded bread, 300g and 200g of tuna cost together?				
	£4.15				

10. How much would 480g of plain bagels, 300g of ham and 150g of chicken cost together?		
£6.15		
11. 10. How much would 480g of multi-seeded bread, 300g of tuna and 200g of chicken cost together?		
£6.45		
12. How much would 360g of plain bagels, 150g of ham and 180g of tuna cost together?		
£4.25		

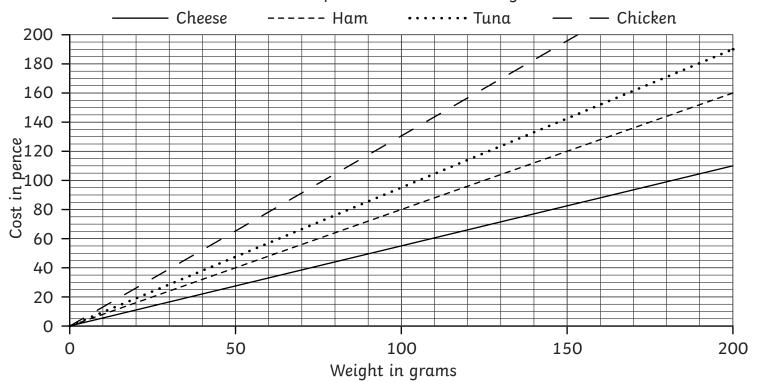
A Bar Chart to Show the Price per 100g of Fairtrade Products



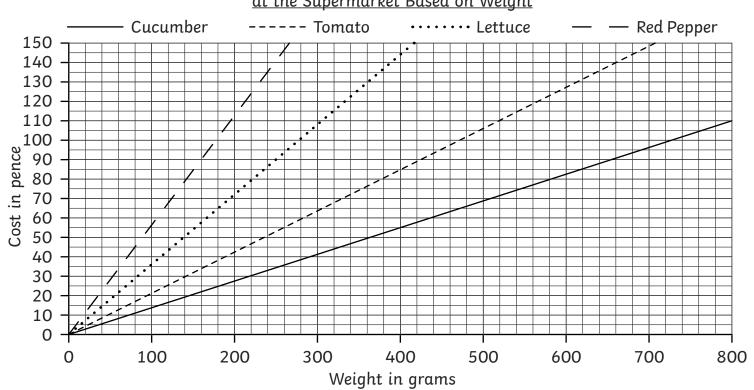
A Straight-Line Graph to Show the Cost of Different Bread Products at the Supermarket Based on Weight



A Straight-Line Graph to Show the Cost of Different Sandwich Fillings at the Supermarket Based on Weight



A Straight-Line Graph to Show the Cost of Different Salad Products at the Supermarket Based on Weight



Statistics | Sandwich Line Graphs

I can answer questions about data presented in a straight-line graph.	
I can interpret data in bar charts and line graphs.	
I can identify the features of a straight-line graph.	
I can answer comparison, sum and difference questions about data presented in a straight-line graph.	

Statistics | Sandwich Line Graphs

I can answer questions about data presented in a straight-line graph.	
I can interpret data in bar charts and line graphs.	
I can identify the features of a straight-line graph.	
I can answer comparison, sum and difference questions about data presented in a straight-line graph.	

Statistics | Sandwich Line Graphs

I can answer questions about data presented in a straight-line graph.	
I can interpret data in bar charts and line graphs.	
I can identify the features of a straight-line graph.	
I can answer comparison, sum and difference questions about data presented in a straight-line graph.	

Statistics | Sandwich Line Graphs

I can answer questions about data presented in a straight-line graph.	
I can interpret data in bar charts and line graphs.	
I can identify the features of a straight-line graph.	
I can answer comparison, sum and difference questions about data presented in a straight-line graph.	

Statistics | Sandwich Line Graphs

I can answer questions about data presented in a straight-line graph.	
I can interpret data in bar charts and line graphs.	
I can identify the features of a straight-line graph.	
I can answer comparison, sum and difference questions about data presented in a straight-line graph.	

Statistics | Sandwich Line Graphs

I can answer questions about data presented in a straight-line graph.	
I can interpret data in bar charts and line graphs.	
I can identify the features of a straight-line graph.	
I can answer comparison, sum and difference questions about data presented in a straight-line graph.	

Statistics | Sandwich Line Graphs

I can answer questions about data presented in a straight-line graph.	
I can interpret data in bar charts and line graphs.	
I can identify the features of a straight-line graph.	
I can answer comparison, sum and difference questions about data presented in a straight-line graph.	

Statistics | Sandwich Line Graphs

I can answer questions about data presented in a straight-line graph.	
I can interpret data in bar charts and line graphs.	
I can identify the features of a straight-line graph.	
I can answer comparison, sum and difference questions about data presented in a straight-line graph.	

Maths | Year 5 | Statistics | Line Graphs | Lesson 5 of 5: Sandwich Line Graphs