UKS2 Statistics Challenge Cards
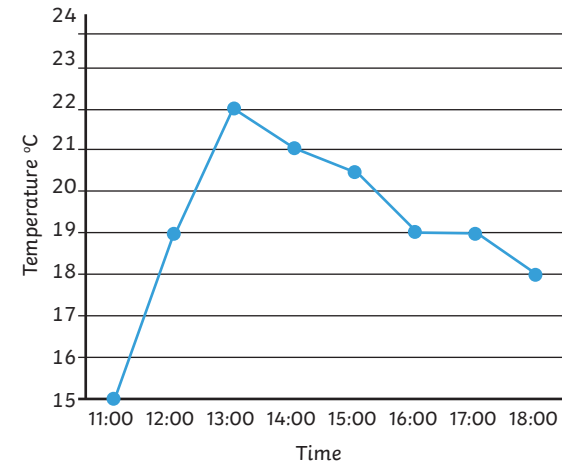
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1. **A Line Graph Showing the Temperature of a Day in August**

a) What was the temperature at 17:00?

b) What time was the highest temperature recorded?

c) At which times was the temperature less than 19⁰C?

d) What was the difference in temperature between the lowest and highest temperature?

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2. Here is a table showing the favourite drink flavours of the children in key stage 2.

Flavour	Boys	Girls	Total
Orange		15	30
Blackcurrant	12	6	
Apple	17	5	
Pineapple	6		
Strawberry		9	
	54	46	100

a) Using the information in the table, fill in the missing boxes.

b) How many more boys like apple than girls?

c) What percentage of children prefer orange?
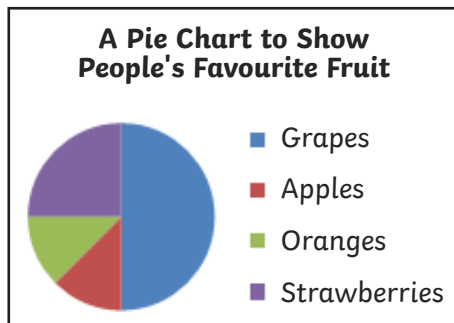
d) Which was the least favourite flavour?

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3. Here is a bus timetable.

	School	Park	Shops	Market	Beach	Pool
Mon	07:45	08:10	08:27	08:39	09:45	10:14
Tues	07:44	08:11	08:28	08:40	09:44	10:13
Wed	07:45	08:10	08:27	08:39	09:45	10:14
Thurs	07:44	08:11	08:29	08:40	09:44	10:05
Fri	07:45	08:10	08:27	08:39	09:45	10:14
Sat and Sun	10:45	11:10	11:27	11:39	12:45	1:14

a) How long does it take to get from the school to the market on a Monday?

b) John arrives at the beach at 09:45 on Wednesday. What time did he get on the bus at the park?

c) On which morning is it quicker to get from the shops to the pool?

4. 32 people were asked to name their favourite fruit. This pie chart shows their responses:

A Pie Chart to Show People's Favourite Fruit
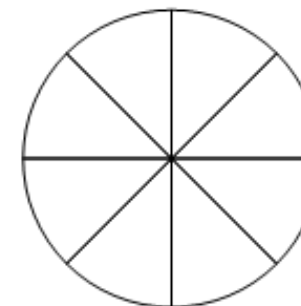

- Grapes
- Apples
- Oranges
- Strawberries

a) What percentage of people said that strawberries were their favourite fruit?

b) How many people said that grapes were their favourite fruit?

c) How many more people chose strawberries as their favourite fruit compared to oranges?

d) The school tuck shop wants to add more fruit to their menu. They use this pie chart to help then decide what fruit to sell. They already sell grapes. Should they add apples, strawberries or oranges to their menu?

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5. 48 children were asked to name their favourite sport.

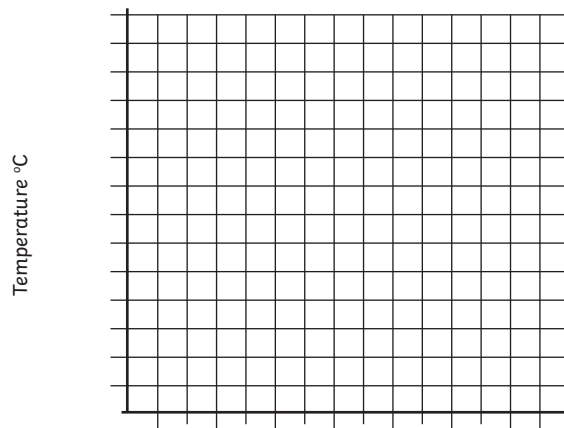| Sport	Number of children
Football	12
Tennis	24
Netball	6
Hockey	6

Key

- Football
- Tennis
- Netball
- Hockey

a) Record the information in a pie chart.

b) What percentage of children gave the answer tennis as their favourite sport?

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6. On Sunday, Zara measures the temperature in her garden at each hour. This chart shows the information she collected.

Day	Temperature
09:00	12 ºC
10:00	10 ºC
11:00	9 ºC
12:00	8 ºC
13:00	13 ºC
14:00	11 ºC
15:00	14 ºC

Temperature ºC

Time

a) Plot a line graph showing the information in the table.

b) Using the graph estimate the temperature at 13:30.

UKS2 Statistics Challenge Cards **Answers**

1. a) **19⁰C**

   b) **13:00**

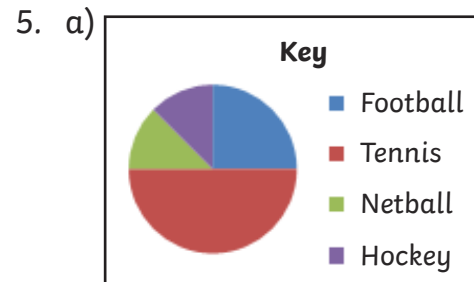   c) **11:00 and 18:00**

   d) **22⁰C - 15⁰C = 7⁰C**

2. a)

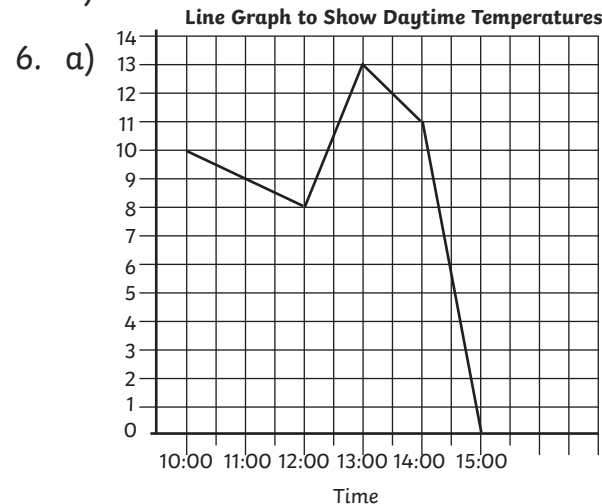| Flavour	Boys	Girls	Total
Orange	**15**	15	30
Blackcurrant	12	6	18
Apple	17	5	22
Pineapple	6	**11**	17
Strawberry	**4**	9	13
	54	46	100

   b) **12**

   c) **30%**

   d) **Strawberry**

3. a) **54 minutes**

   b) **08:10**

   c) **Thursday morning**

4. a) **25%**

   b) **16**

   c) **4 more people chose strawberries.**

   d) **They should add strawberries as this was the second favourite fruit after grapes according to the pie chart.**

5. a)

   Key
   - Football
   - Tennis
   - Netball
   - Hockey

   b) **50%**

6. a)

Line Graph to Show Daytime Temperatures

   b) **12⁰C**

   c) **11⁰C**