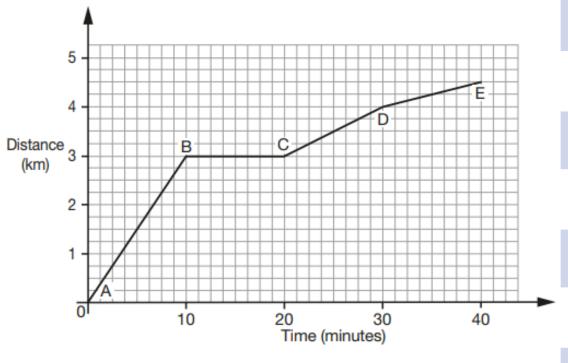
KS2 Statistics Reasoning Practice Graphs Pictograms Timetables Pie charts

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Reading and interpreting graphs

Graphs I:

This graph shows the distance walked on a family hike.



I. How far did the family walk in total?

2. What happened between 10 and 20 minutes?

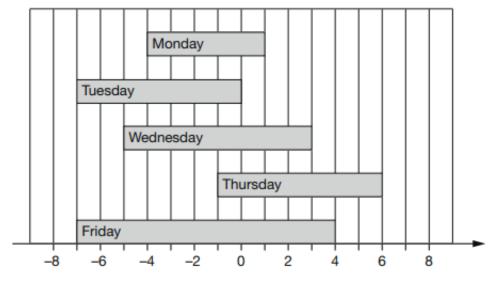
3. How far did the family walk in the first half of their walk?

4. How far, approximately, had the family walked in 35 minutes?

5. Between which two letters had the family walked the furthest distance?

Graphs 2:

This graph shows the range of temperatures in a city in one week.





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I.Which day had the highest temperature?

2. Which days had the lowest temperature?

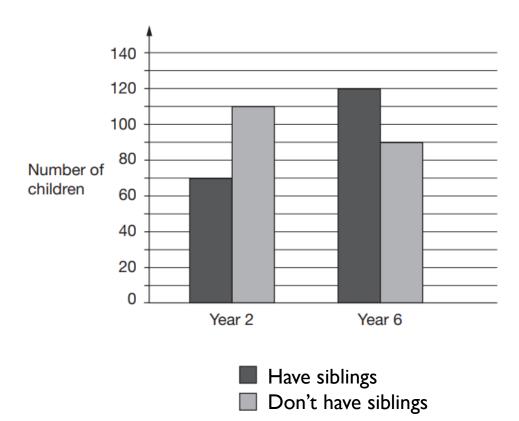
3. What is the difference between the highest and lowest temperatures?

4. Which day did the temperature range the most?

5. On how many days did the temperature rise above 3°C?

Graphs 3:

This graph shows the number of children who have siblings and don't have siblings in Year 2 and Year 6.



I. How many children in Year 2 have siblings?

2. How many children in Year 6 don't have siblings?

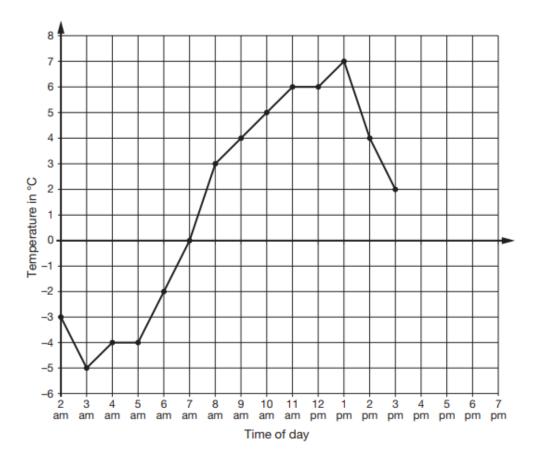
3. What is the difference between the number of children in Year 6 and in Year 2?

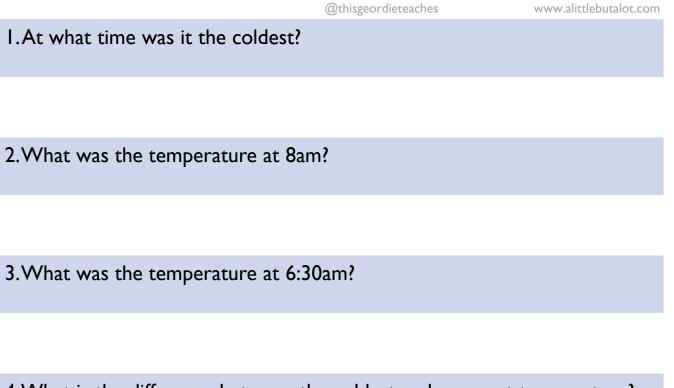
4. How many children are there altogether?

5. How many more children in Year 6 have siblings than in Year 2?

Graphs 4:

This graph shows the temperature every hour on a cold day.





4. What is the difference between the coldest and warmest temperature?

5. The temperature fell 4 degrees by 4pm. Draw this on the graph.

Graphs 5:

10

8

6

4

2

0

X_{1.8}

Mon

Rainfall

(cm)

This graph shows the amount of rainfall over a week.

×^{4.3}

Tue

x^{0.2}

Wed

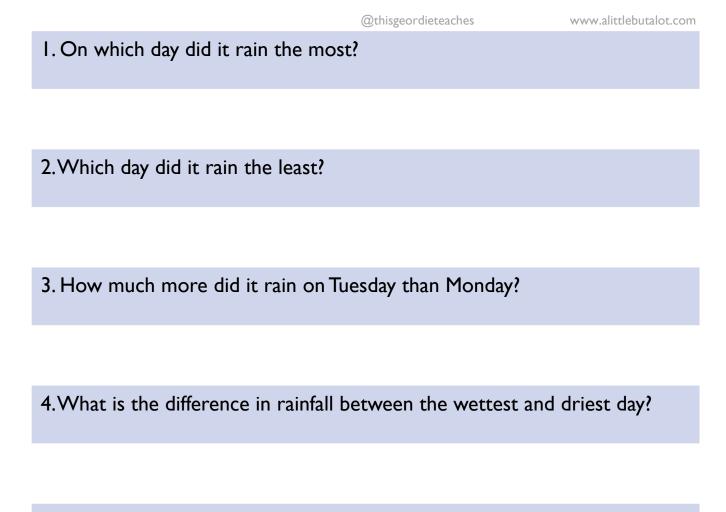
Day

X 8.4

Fri

X 6.8

Thu



5. What is the mean rainfall over the 5 days?

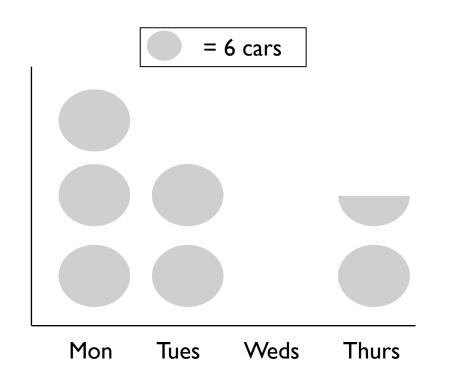
Graphs (answers)

	Graphs I	Graphs 2	Graphs 3	Graphs 4	Graphs 5
QI	4.5km	Thursday	70	3am	Friday
Q2	They stopped walking (or similar)	Tuesday and Friday	90	3°C	Wednesday
Q3	3km	I3°C	30	-I°C	2.2cm
Q4	4.25km	Friday	390	12°C	8.2cm
Q5	A and B	2	50	Line drawn at -2°C	4.3cm

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Reading and interpreting pictograms

This pictogram shows the number of cars parked in a car park over a week.



I. How many cars were parked on Monday?

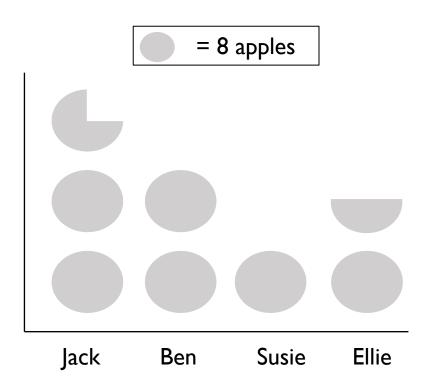
2. What is the difference between the number of cars on Monday and Thursday?

3. 15 cars were parked on Wednesday. Draw this on the pictogram.

4. What is the total number of cars parked over the week?

5. If 70 cars were parked over the entire week, how many cars were parked in the car park on Friday?

This pictogram shows the number of apples eaten by children in a month.



I. Susie ate 2 more apples than Ellie. Show this on the pictogram.

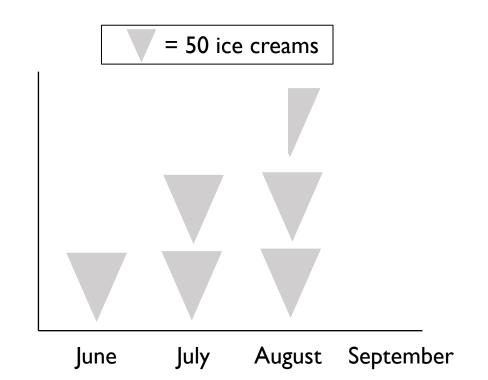
2. Who ate the most apples in a month?

3. Who ate the least apples?

4. What is the total number of apples eaten over the month?

5. If apples come in bags of 6, how many full bags of apples did the children eat in the month?

This pictogram shows the number of apples eaten by children in a month.



I. How many ice creams were sold in July?

2. How many ice creams were sold in August?

3. In September, only 25 ice creams were sold. Show this on the pictogram.

4. What is the total number of ice creams eaten over the months?

5. What is the mean number of ice creams sold?

This pictogram shows the number of cars parked in a car park over a week.



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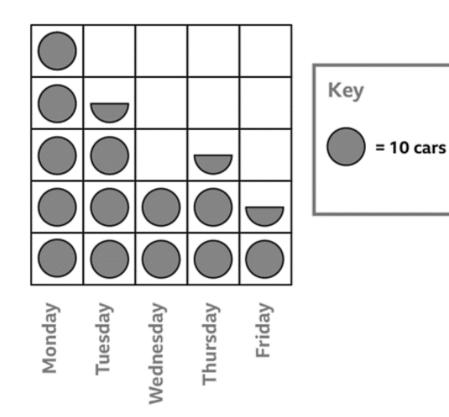
I. How many cars were parked on Monday?

2. What is the difference between the number of cars on Monday and Thursday?

3. There were 10 more cars parked on Wednesday than Friday. Complete the pictogram to show this.

4. What is the total number of cars parked over the week?

5. If each car pays £3 to park. How much money did the car park make this week?



This pictogram shows the favourite hobbies of children in KS2.

I. If 30 children chose swimming, what does one circle represent?

2. Which hobby was the least popular?

3. How many more children chose dance than gymnastics?

4. What is the difference between children who like swimming and children who like hockey?

5. What is the total number of children asked?

Hobby	Number of children
Hockey	
Football	
Swimming	
Gymnastics	
Dance	

Pictograms (answers)

	Pictograms I	Pictograms 2	Pictograms 3	Pictograms 4	Pictograms 5
QI	18	Three quarters of a circle added to Susie	100	50	6
Q2	9	Jack	125	25	Gymnastics
Q3	One and a half circles drawn added to Wednesday.	Ellie	Half a triangle added to August	Half a circle added to Wednesday.	12
Q4	54	64	300	150	15
Q5	16	10	125	£450	102

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Reading and interpreting timetables

Timetables I:

This is a train timetable showing the journey from Sheffield to London.

Sheffield	London
12:02	14:00
12:31	14:41
13:02	15:00
13:31	15:41
14:02	16:00
14:31	16:41
15:02	17:00
15:31	17:41

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I. How long does the 12:02 take to get to London?

2. If I want to be in London by 15:50, what time do I have to be on the train from Sheffield?

3. I arrive at Sheffield station at 12:37. How long do I need to wait at the station for the next train?

4. The 13:31 train is delayed by 42 minutes. What time will it arrive in London for?

5. The 16:41 train from London arrives 23 minutes late. What time must it have left Sheffield?

This is a train timetable showing the journey from Newcastle to Edinburgh.

Leaves Newcastle	Arrives Edinburgh	
12:39	14:13	
12:54	14:21	
13:35	15:09	
13:45	15:16	
13:52	15:19	
14:21	15:47	
14:43	16:15	
14:55	16:22	

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I. How long does the 12:39 take to get to Edinburgh?

2. I have a meeting which starts at 3pm in Edinburgh, what time do I have to be on the train from Newcastle?

3. Which train between Ipm and 2pm is the fastest?

4. The 14:43 train is delayed by 18 minutes. What time will it arrive in Edinburgh?

5. Which train is faster: the 12:39 or the 14:21? By how much?

Timetables 3:

This table shows some bus times from Worcester to Rubery on a morning.

Worcester	05:30	07:05	07:50
Fernhill	05:40	07:16	08:07
Droitwich	05:48	07:29	08:14
Wychbold	05:55	_	08:25
Sidemoor	_	_	08:32
Catshill	06:11	08:00	08:40
Marlbrook	06:14	08:05	_
Rubery	06:21	08:11	09:02

I.What time does the 05:40 from Fernhill arrive in Catshill?

2. My friend lives in Sidemoor. I live in Worcester. What is the earliest I can get on the bus?

3. How long do I need to wait at Droitwich for the next bus if I get there at 07:48am?

4. I need to be in Rubery by 9am. What time do I need to board the bus at Fernhill?

5. Which journey from Fernhill to Rubery is the fastest? Circle the fastest journey.

Timetables 4:

This timetable shows the weekly timetable of a class.

Caterpillar class Timetable	Monday	Tuesday	Wednesday	Thursday	Friday
8:50 to 9:00	Registration	Registration	Registration	Registration	Registration
9:00 to 10:00	English	English	English	English	English
10:00 to 10:20	Playtime	Playtime	Playtime	Playtime	Playtime
10:20 to 10:30	Class time	Class time	Class time	Class time	Class time
10:30 to 11:30	Maths	Maths	Maths	Maths	Maths
11:30 to 12:00	Phonics	Phonics	Phonics	Phonics	Phonics
12:00 to 1:00	Lunchtime	Lunchtime	Lunchtime	Lunchtime	Lunchtime
1:00 to 2:15	Торіс	PE (small hall)	PE (large hall)	PPA subjects	Торіс
2:15 to 3:15	Торіс	Singing Assembly	Topic	PPA subjects	School Assembly

I. How much time do the class spend learning Maths every week?

2. How much time do the class get doing PE each week?

3. What is the total hours spent in assemblies in a week?

4. Do the children spend more time in Topic lessons or English?

5. How much time on Wednesday do the children spend NOT learning Maths or English?

This timetable shows some bus times from Uxbridge to Ealing Broadway.

I. How long does the journey from Uxbridge to Hayes take?

2. I want to be in Southall by I Iam. What time do I need to get on a bus from Hayes?

Bus 76 Timetable

Uxbridge	09:30	10:30	11:50	13:10
Hayes	09:47	10: 47	12:07	13:27
Southall	09:55	10:55	12:15	13:35
West Ealing	10:05	11:05	12:25	13:45
Ealing Broadway	10:11	11:11	12:31	13:51

3. I'm in West Ealing at 11:58. How long do I have to wait for the next bus?

4. The 13:27 from Hayes is delayed by 14 minutes. What time will it arrive at Ealing Broadway?

5. Does the journey from West Ealing to Ealing Broadway always take the same amount of time?

Timetables (answers)

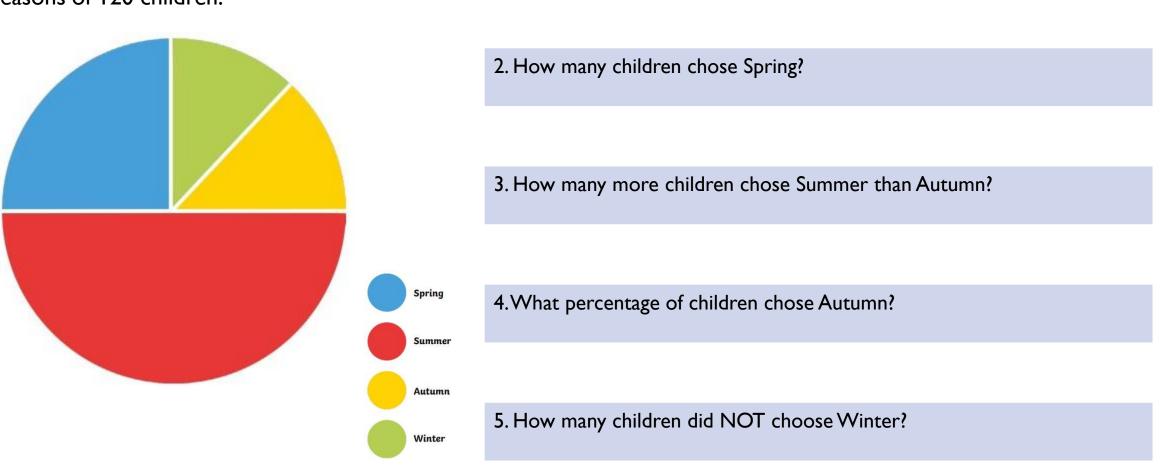
	Timetables I	Timetables 2	Timetables 3	Timetables 4	Timetables 5
QI	I hour 52 mins	I hour 34 mins	06:11	5 hours	17 mins
Q2	13:31	12:54	07:50	2 hours 30 mins	10:47
Q3	25 mins	13:52	26 mins	2 hours	27 mins
Q4	16:23	16:33	07:16	English	14:05
Q5	14:53	14:21	05:40 circled	2 hours 45 mins	Yes - 6 mins

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Reading and interpreting pie charts

Pie chart I:

This pie chart shows the favourite seasons of 120 children.



I. Which season was the most popular?

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Pie chart 2:

This pie chart shows which pets children have.

No Pet Cat Fish Dog



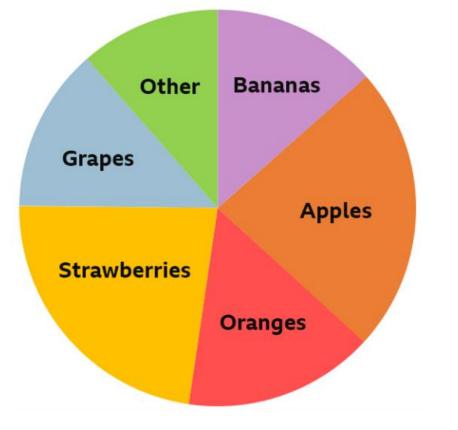
3. If 80 children were asked, how many children have a cat?

4. What fraction of children have a cat?

5. Approximately, how many children have a fish?

Pie chart 3:

This pie chart shows the results of 40 children when they were asked their favourite fruits.

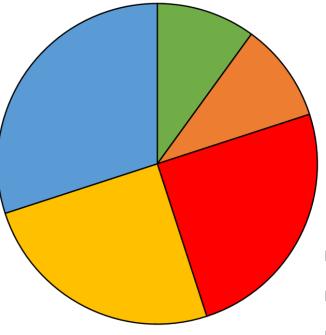


4. True or false: 6 children chose grapes.

5. Approximately what percentage of children chose bananas and apples?

Pie chart 4:

This pie chart shows the types of houses the children in Year 6 live in.



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I.Which house type is the most common?

2. 60 children took part in this survey. How many of them live in detached houses?

3. What fraction of children live in terraced houses?

bungalow

🗖 flat

detached

semi-detached

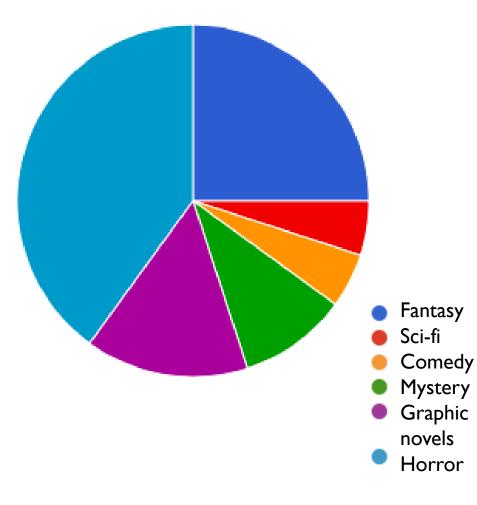
■ terraced

5.What percentage of children do NOT live in terraced houses or bungalows?

4. How many fewer children live in bungalows than detached houses?

Pie chart 5:

This pie chart shows the favourite genre of books of 100 children.



I. Which genre is the most popular?

2. How many children chose fantasy?

3. True or false: more than a third of children chose graphic novels, mystery and comedy.

4. Approximately, what percentage of children chose sci-fi?

5. Approximately, how many children did NOT choose horror or comedy?

Pie charts (answers)

	Pie charts I	Pie charts 2	Pie charts 3	Pie charts 4	Pie charts 5
QI	Summer	Dog	Apples	Terraced	Horror
Q2	30	No pet	10	15	25
Q3	45	20	1/8	3/5	False
Q4	12.5%	1/4	False	9	Approx. 10%
Q5	105	Approx. 20	Approx. 37.5%	Approx. 37.5%	Approx. 50