Data Handling KS2 SATS Standard Worksheet

1. This is a list of the highest temperatures each day for one week.

Day	Temperature
Sunday	6ºC
Monday	5ºC
Tuesday	8ºC
Wednesday	12ºC
Thursday	13ºC
Friday	11ºC
Saturday	7ºC

How many degrees warmer was it on the hottest day than on the coldest day?

1 mark

°C

Here is a chart of the temperatures. Saturday is missing.

Draw in the bar for Saturday.



1 mark

2. Here is a table of the number of stamps used each day in school.

	Monday	Tuesday	Wednesday	Thursday	Friday
19p	22	11	14	32	13
25p	8	17	4	6	19
30p	6	0	2	8	4
35p	6	0	6	1	0
50p	6	0	2	12	3

How many 25p stamps did the school use on Wednesday?





This is a graph of **one kind** of stamp they used.



Here are their times.

Name	Time taken
Sue	15.97 secs
Jan	16.39 secs
Sam	14.83 secs
Tom	17.00 secs
Raj	15.89 secs

What is the winner's time?

Who has the time nearest to 16 seconds?

Here are their long jump results.

Sue jumped 212 cm.

Draw Sue's long jump result on the graph.



secs

.....

1 mark

1 mark



Use the graph to estimate how much further Sam jumped than Jan.



1 mark

4. Anne makes a graph of buses passing a school in 1 hour.



How many times does a Number 27 bus pass in the hour?



1 mark

Anne says,

"Bus number 39 passes least often in the hour."

Explain how the graph shows this.

.....

.....

1 mark

How many more Number 8 buses pass in the hour than Number 11 buses?

5. Chris did a survey of the number of people who went into shops in one hour.

Number of people who went into a shop		
Shoe shop	++++ ++++	
Newsagent	1111	
Post Office	++++ ++++ ++++	
Bread shop	++++ ++++	
Supermarket	++++ ++++ ++++	

How many people went into the Supermarket in the hour?

1 mark



Here is part of a bar chart of the information.

Draw in the **missing** bar.



1 mark

6. Here is a table of the pets owned by **six** children.

Name of child	Cat	Dog	Bird	Rabbit) (A
David	3	1	0	0	
Julie	0	0	1	2	
Carl	2	0	0	1	(ru)
Terry	0	1	0	1	Re
Mary	0	2	0	0	
Hawa	1	0	1	1	

Here is a graph of the pets of five of the children.



The pets of **one** of the children are not on the graph.

Whoco i	note are not on the graph?		
vv1105e	pels ale nul un life graph?	••	

Explain how you know.

.....

7. These are the times letters are collected from a post box.

Monday to Friday	Saturday	Sunday
8am		
2pm	11:30am	no collection
6:30pm		concention

What is the latest time letters are collected on Wednesday?



1 mark

This table shows the numbers of children who went walking, sailing or climbing at an outdoor centre.

	Мау	June	July
walking	25	80	75
sailing	15	42	50
climbing	18	27	23

How many children went **sailing** in **May**, **June and July** altogether?

How many **more** children went **walking** in **June** than **climbing** in **June**?

1 mark

1 mark

1 mark

1 mark

9.

This chart shows the musical instruments some children play.

	Lena	John	Rashid	Nicola	Yin
drums	✓	\checkmark		\checkmark	
keyboard			\checkmark		
trumpet	\checkmark				\checkmark
recorder			~	~	\checkmark
piano	✓	~	~		

Who plays both recorder and drums?

How many children play more than two musical instruments?

10. Tom does a survey of children's favourite breakfast cereals.

These are the results for Class 6



How many more children in Class 6 prefer Choc Grain than Golden Corn?



These are the results for Class 5



How many children in **both** classes like **Honey Bites** best?



1 mark

1 mark

11. (a) **Complete** this tally chart.

Fruits we like best in our class			
fruit	tally	number of children	
orange		5	
apple	1117 (11	8	
pear	1)[3	
banana	HH HH HH I		
mango		2	

(b) The children made this graph from the tally chart.

Put a cross (X) on the two columns which are wrong.





12. Mandy bounces a ball. She plots the results on this graph.



After 50 seconds Mandy has done 65 bounces.

- (a) **Plot** this on the graph.
- (b) **Use the graph** to estimate the number of bounces Mandy has done after **35** seconds.

1 mark

1 mark

13.

Tallv	of	traffic	passing	school
	· ··	. and	paconig	0011001

lorries	ЩН III	8
cars	HH HH III	
bicycles	HH I	
vans	HH	
motorbikes		4

(a) Complete the tally.

1 mark

- (b) How many vehicles were seen altogether?
- (c) Complete this graph using the tally.

cars								
motorbikes								
bicycles								
vans								
lorries								
(0 :	2 4	4 (6	8 1	0 1	2 1	4 1 mark

10

flavour	number of children
pineapple	2
orange	10
blackcurrant	8
grapefruit	6
apple	9

14. Class survey of favourite fruit drinks

a) Complete the pictogram for the class.



		1 mark
(b)	How many children altogether chose the three most popular flavours?	
		1 mark
(c)	Write another question you can ask someone about the results of the class survey.	
		1 mark

15. Five children made a graph.



16. Five children sorted themselves into these sets

Show this on the graph.



Complete this diagram to show the same information.



2 marks

17. Some children drew this graph.



Number of books we have read this year

(a) Sarah has read 12 books and Leela 9 books.

Show these on the graph.

(b) Javed has read more books than Tom.

How many more?

		1 mark

18. This diagram shows how many children had sandwiches, crisps and fruit in their lunchboxes.



- (a) How many children had **only** sandwiches?
- (b) How many children had crisps?



19. The table shows the number of shirts in a shop.

	White	Not White
Cotton	27	56
Not cotton	74	90

- (a) How many shirts are white?
- (b) How many shirts are there altogether?

1 mark

1 mark

1 mark

20. This is what it costs to visit a castle.

Allington Castle Cost per person				
Adults	£2.45			
Children	£1.30			
(11 and over)				
Children	95p			
(under 11)				

Helen is 10 years 9 months old.

How much will it cost Helen to visit?



1 mark

On one day the number of visitors was

Adults	. 4
Children (11 and over)	. 16
Children (under 11)	. 12

Here is a graph to show the number of visitors.

Complete the scale for the axis called "Number of Visitors".



1 mark

How much will it cost for 18 children (under 11) to visit the castle?

You must show your working.



Downloaded from: www.satspapersguide.co.uk

	Downio	aded Irc	mi: <u>www</u>	.satspaper	sguide.co.uk
		Star	nding Long	Jump	
21.	On sports day children get points for how far they jump.	Over	80cm	1 point	
		Over	100cm	2 points	
		Over	120cm	3 points	
		Over	140cm	4 points	
	Joe jumped 138cm	Over	160cm	5 points	
		Over	180cm	6 points	
	How many points does he get?				
				nointe	
				points	
					1 mark
	Comparid (1) immed 4 E matrice and 4 mainte?				
	Sam said, "I jumped 1.5 metres. I get 4 points".				
	Give a reason why Sam is correct.				
			•••••		1
					1 mark
	Each child puts a cross on a line to show how far they jum	nod			
	Lach child puts a closs on a line to show how far they juin	peu.			
	Sam puts har cross at 1.5 matros				
	Sam puis her closs at 1.5 metres.				
	Lypp jumps 1 11 motros				
	Lynn jumps 1.14 metres.				
	But a cross on the line for Lynn's jump				
	Fut a closs on the line for Lynn's jump.				
	0				
	Sam				
L					
ſ					
0	1 2		3		
	metre metres		metres		
					1 mark

22. This diagram shows the proportions of waste by weight a family throws away in one year,



Estimate what **fraction** of the waste is **organic**.



The family throws away about **35 kilograms of plastic** in a year.

Use the diagram to estimate the weight of glass and metal they throw away.





Date in March

10 11 12 13 14 15 16 17 18

7

5 6 9

8

1 mark

Which date showed the largest change in temperature from the day before?

1 mark

Estimate Gavin's highest temperature shown on the graph.

Give your answer to **1 decimal place.**

24. These are the marks from a spelling test.

Jay	16
Karen	13
Dominic	18
Tariq	13
Lara	12
Oliver	14
Gemma	19

What is the median number of marks?

25.

Car Park charges			
Time	Charge		
up to 1 hour	20p		
1 to 2 hours	50p		
2 to 3 hours	£1.00		
3 to 4 hours	£1.70		
over 4 hours	£5.00		

Emma parks her car at 9.30 am.

She collects the car at 1.20 pm.

How much does she pay?



1 mark

Dan and Mark both use the car park.

Dan says,

'I paid exactly twice as much as Mark but I only stayed 10 minutes longer'.

Explain how Dan could be correct.

.....

1 mark

est.

26. Tom, Amy and Helen want to go on a boat trip.

There are three boats.



How much does it cost altogether for three people to go on the Lark?



tents				
sleeping bags				
backpacks				

The shop had 20 sleeping bags at the beginning of June.

How many of these sleeping bags did the shop have left at the end of June?

1 mark

In July, the shop sold three times as many tents as in June.

How many tents did the shop sell in July?



28. This bar chart shows how many people went to a school play.



Estimate the number of people who went there on **Thursday** and **Friday** altogether.



1 mark



Each person paid £2.25 for a ticket to get in.

How much ticket money was collected on Wednesday?



2 marks

29. Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.

You may not need to use all of the boxes.



2 marks

30. This table shows the weight of some fruits and vegetables.

Complete the table.

	grams	kilograms	
potatoes	3500	3.5	
apples		1.2	-
grapes	250		
ginger		0.03	

31. The table shows the cost of coach tickets to different cities.

		Hull	York	Leeds
Adult	single	£12.50	£15.60	£10.25
Adult	return	£23.75	£28.50	£19.30
Child	single	£8.50	£10.80	£8.25
	return	£14.90	£17.90	£14.75

What is the total cost for a return journey to York for one adult and two children?



1 mark

How much **more** does it cost for two adults to make a **single** journey to Hull than to Leeds?



2 marks

32. Some children ran in two races on sports day. Here are their times.

	100m race	800m race
Elise	15.9 seconds	3 minutes 02 seconds
Jake	19.7 seconds	2 minutes 58 seconds
Teri	16.8 seconds	3 minutes 01 seconds
Neil	17.1 seconds	2 minutes 59 seconds
Barry	18.4 seconds	2 minutes 57 seconds

Who finished the 100m race in second place?

In the 800m race, how many seconds did Barry finish ahead of Elise?



1 mark

1 mark

33. The graph shows the journey of a hot-air balloon.





metres

1 mark

(b) After how many **minutes** of the journey did the balloon begin to go down?



34. 80 people were asked if they owned a pet.

30 had dogs

25 had cats

10 had other pets

15 had no pets

Complete the pie chart to show this information.



2 marks

35. Here is a bar chart showing rainfall.



Kim draws a dotted line on the bar chart.

She says,

'The dotted line on the chart shows the mean rainfall for the four months.'

Use the chart to explain why Kim cannot be correct.

.....

What is the mean rainfall for the four months?



1 mark

36. A school collects money for charity.

This chart shows how much has been collected.



The target is **£3000**.

Estimate how much **more** money the school needs to reach the target.



1 mark

Anil says,

The chart shows that we will reach the target in two months.

Use the chart to explain why Anil may be wrong.

37. Rob runs 100 metres ten times. These are his times in seconds.

13.4	13.0	13.9	13.7	13.3
13.5	14.0	14.4	13.8	14.0



What is his mean (average) time?

1 mark

38. Kelly chooses a **section** of a newspaper.

It has 50 words in it.

She draws a bar chart of the number of letters in each word.



What fraction of the 50 words have more than 6 letters?



1 mark

Kelly says,

23 of the 50 words have less than 5 letters. This shows that nearly half of all the words used in the newspaper have less than 5 letters in them.

Explain why she **could be wrong**.

.....

.....

39. Three children do a sponsored silence.

This is a chart of the money they collected.

Money C	$(\pounds 10) = \pounds 10$
Sheena	£10 £10 £10 £10 £
Gary	£10 £10 £1
Рір	£10 £10 £10 £1

Estimate how much Sheena collected.



1 mark

Together Gary and Pip collected more than £60.

Explain how the **chart** shows this.

.....

1 mark

40. Write a different number in each of these boxes so that the mean of the three numbers is 9.



1 mark

Write a number in each of these boxes so that the mode of the five numbers is 11.

41. Tony and Gemma looked for snails, worms, slugs and beetles in their gardens.



42. *n* stands for a number.

Complete this table of values.



43. Vicki puts 10 books on a shelf.

The 10 books take up 28 centimetres.



What is the mean (average) thickness of her books?



2 marks

The shelf is **120 centimetres** long.

Vicki fills the shelf with a mixture of books like the first ten books.

Estimate how many books she can get on the **120 cm shelf**.



44. Carol went on a 40-kilometre cycle ride.

This is a graph of how far she had gone at different times.



2 marks



46. A hot liquid is left to cool in a science experiment.

This graph shows how the temperature of the liquid changes as it cools.



Read from the graph how many minutes it takes for the temperature to reach 40°C

Read from the graph how many minutes the temperature is above 60°C

47. This graph shows how the weight of a baby changed over twelve months.

10 9 8 7 · 6 weight (kg) 5 4 3 2 1 · 0 -2 ż 9 11 12 1 ż 5 6 8 10 birth 4 age of baby (months)

From the graph, what was the weight of the baby at 10 months?

1 mark

How much **more** did the baby weigh at 5 months than at birth?



kg

1 mark

1 mark

minutes

minutes