



A MALAN

# **5+7=125+7=12** 5+7=12**547312**

# Statistics

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#### Pages 1–3

**1** What is your birthday?

What is your lucky number?

What is your favourite colour?

'Do you prefer chocolate or 2a caramel flavoured ice cream?'

**b** The first question would get more useful answers. The other question is too broad, there would be too many different answers.

20	turtle		elephant	spider
Эd	guinea pig	chimpanzee		strake

- **b** Which classroom pet do you prefer, a turtle or a guinea pig?
- c Answers will vary.

#### **4a** 25

**b** 28

5a	Fa	vourite colours in 4B
	Red	JHT
	Blue	JHT JHT
	Green	JHT
	Yellow	1111

#### **b** 30

c It makes it easy to count because they are in groups of 5.

#### Pages 4–7

- **1a** 6
- **b** Blonde
- c Fair
- d The same number of children have red and black hair.

**2** 5; 6; 7; 10



- **3a** Which of these four options would you like for the healthy breakfast morning?
- **b** 25; 10; 15; 10





- **b** 28
- **c** 2
- **5a** 150
- **b** 30
- c false

#### Pages 8–9

- 1a Mini-beasts that we saw
- **b** 8
- **c** 8
- **d** 46

#### Pages 8–9

2a, b	Míní-beasts that we saw					
	Worms	11111111111				
	Dragonflies 🔆 🤆 🌾 🔆 Snails 🖉 🖉 🌾 🌾					
	Butterflies	Ja Ja Ja Ja				

c It's easier to count the amount in each category.

3	Heading:	Fruit in stock (or similar)				
	Bananas	1111				
	Apples					
	Oranges	$\bigcirc \bigcirc $				
	Pineapples					

4	Heading: 1	3irthdays in grade 3
	January	<u> </u>
	February	옷옷
	March	<u> </u>
	April	<u> </u>

Key: <u>4</u>

#### Pages 10–11

#### **1a** 3

- **b** Sara and Nick
- c A cat

	Yvette	Simon	Ben	Mel	Arki	Lee
2		Glas	ises		No glasses	
		Le	e		Arkí	
	Hat	Sím	ion		Yvette	
	No hat	Be	m		Mel	

3a	Even		Not even			
Less than 10		6			9	
	Not less than 10	20	16	19	21	

3b		Divisible by 5		Not divisible by 5		5	
	Greater than 30	35	45	40	34 32		
	Not greater than 30	20	25	15	28	18 3	12

4 Quadrilateral Not quadrilateral Striped 
Not striped 
Not striped

#### Page 12

- 1a Which operation matches this picture?
- **b** Answers will vary.
- c Answers will vary.

#### Pages 13–15



2 likely;

certain; impossible; unlikely

- 3a Red
- **b** Yellow
- 4a-d Answers will vary.



6a likely

- $\boldsymbol{b} \text{ impossible}$
- 7 Answers will vary Sample answer:





#### Pages 16-17

1a Observe students.

- **b** Answers will vary.
- c Answers will vary.

#### Page 18

1a-c Answers will vary.

2a-c Answers will vary.

#### Pages 19–20

- 1 <u>6</u>, <u>6</u>, <u>even</u>
- 2 Answers will vary.
- 3 Answers will vary.



a-e Answers will vary.

#### Page 21

What to do

Observe students.

What to do next

Answers will vary.





All the children in a school were surveyed to ind their favourite food. This was what was found:

Favourite foods	Children
Pizza	45
Pasta	50
Burgers	35

Create a bar chart to show these results, with a scale of 1 to 5. Each division in the chart will represent 5 children. Fill in the scale, add labels and a title to the chart.





#### A group of children went on a mini-beast hunt and this is what they saw:



#### Represent this data in a pictogram below:

Butterflies	
Worms	
Snails	
Ants	

In this pictogram a scale is used. Each picture represents 2 of each mini-beast.

	•••••	•••••	• • • • • • • • • • • • • • • • • • • •
Skills	Not yet	Kind of	Got it
<ul> <li>Formulates questions that can be answered with data</li> </ul>			
Calculates tallies			
Constructs a bar chart showing one-to-one correspondence			
<ul> <li>Constructs a pictogram and includes a key</li> </ul>			
Constructs a bar chart with a scale			



At a sports carnival, students were allowed to bring either pom-poms or a mascot or both in the colours of their team. This carroll diagram shows what a group of students brought.

	Pom-poms			No pom-poms
Mascot	Molly Lex	Bianca ie Brig	Jo git	Alex Nick Rachel
No mascot	Will	Charlie	Sam	Cam Max Wes Callum

- **a** How many kids brought only pom-poms?
- **b** How many kids brought only mascots?
- c What did Charlie bring?
- **d** Name one person who brought both a mascot and a pom-pom.
- e How many kids brought neither a pom-pom or a mascot?
- .....

#### 4 Sort this data by writing the names into the carroll diagram below:

- Marley and Tom both have a cat and a dog.
- Cassie just has a cat.
- Bri just has a dog.
- Tess and Sia don't have any pets.

Marley	Cassie	Bri	Tess	Sia	Tom
	Ca	t		No cat	
Dog					
No dog					

Skills		Kind of	Got it
Interprets and sorts data from a carroll diagram			



## Chance

Read each statement and circle the chance of it happening:

	Event	Chance
а	You will find an elephant hiding under your bed.	impossible / unlikely / likely / certain
b	Sunday will come after Saturday.	impossible / unlikely / likely / certain
С	Every student in your class will choose red as their favourite colour.	impossible / unlikely / likely / certain
d	It will be sunny every day this week.	impossible / unlikely / likely / certain



Skills		Kind of	Got it
Labels events as being impossible, unlikely, likely or certain			
Identifies potential outcomes in a simple chance situation			



## Chance

Name

The results of a spinner are shown in this table. Colour the spinner to show what the spinner is likely to look like:

Spinner experiment				
Red	Blue	Green		
5	12	3		



Jo tossed a counter 20 times. One side was blue and the other side was red. Show what her results could have looked like. Use B for blue and R for red.

Is 6 the luckiest number in board games? Why or why not?

Skills	Not yet	Kind of	Got it
Connects results of simple chance experiments with the object used			
Explains likelihood of a die number			



5

## Series D – Statistics – Student Progress Record

Name	Class	Date
What went well:		
Vhat I need to improve:		
		1
Series D – Statistics – Stu	udent Progress Record	
Name	Class	Date
Vhat went well:		
Vhat went well:		
What went well:		
What went well:		
What went well:		

#### **ASSESSMENT ANSWERS**

#### Pages 4–6



2	Mini-beasts that we saw				
	Butterflies	So So So So			
	Worms	ſ ſ ſ			
	Snails				
	Ants	M M M M M			

#### **3a** 3

**b** 3

- c pom-poms
- d Molly
- **e** 4

Marley	Cassie	Bri	Tess	Sia	Ton

4	Cat		No cat	
	Dog	Marley Tom	Bri	
	No dog	Cassie	Tess Sía	

#### Pages 7–8



- 4 Answers will vary but should show it to be half blue, half red or close to half.
- 5 Answers will vary.

Sample answer: No because there are 6 different ways that a die could land and 6 different numbers which means there is an even chance for each number 1 to 6.



Торіс	Reference	Strand	Objective			
Statistics	3S1	Statistics	Interpret and present data using bar charts, pictograms and tables.			
Statistics	352	Statistics	Solve 1-step and 2-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts, pictograms and tables.			
Chance	This c	This content has been included for curricula other than the England National Curriculum.				

