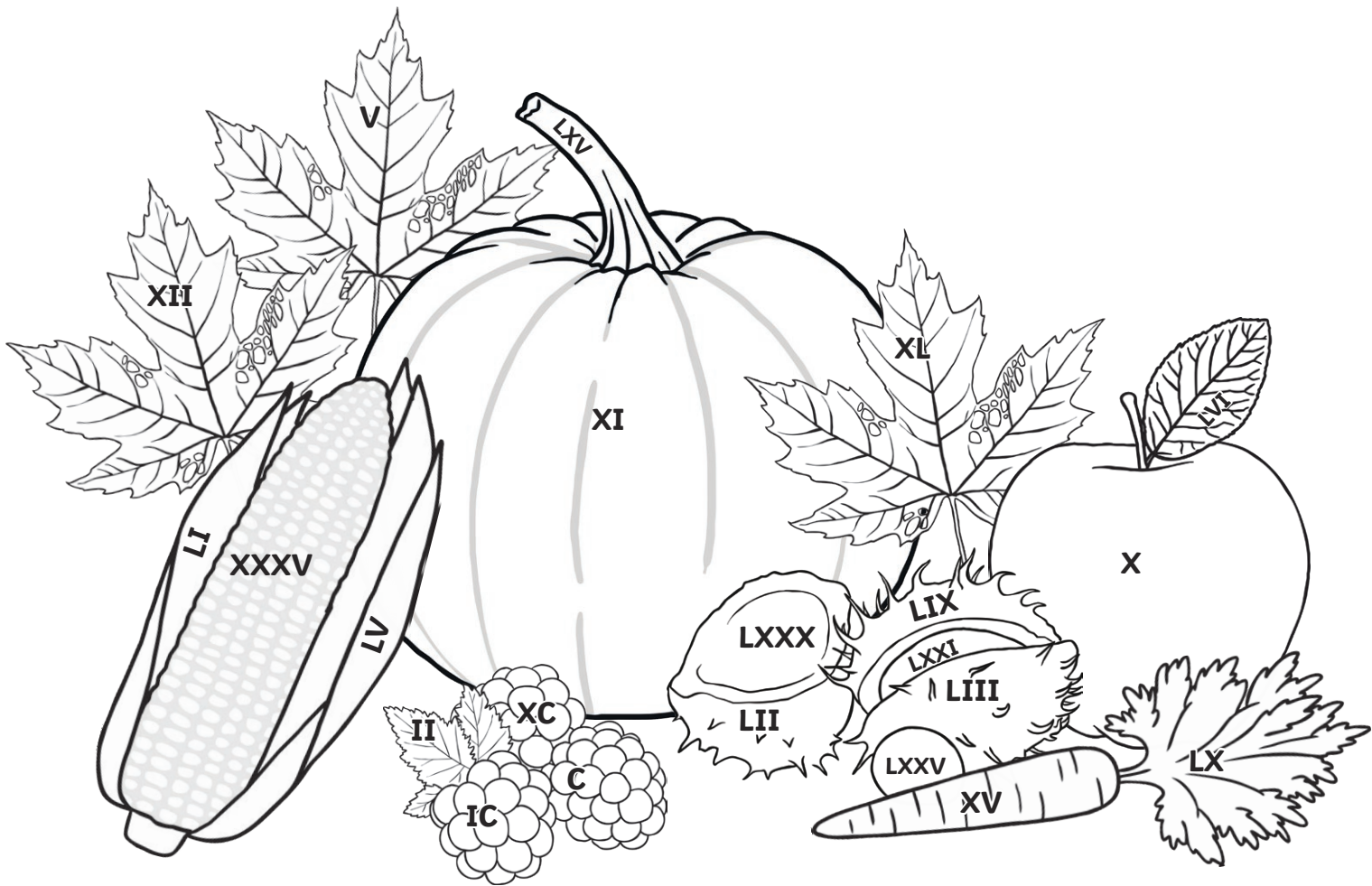# Year 4 Autumn-Themed
Maths Activity Booklet

Name: _____

Colour by Calculations

Read the Roman numerals and use the key to colour each part of the autumn-themed picture.
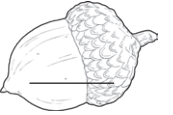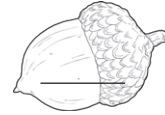
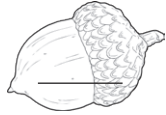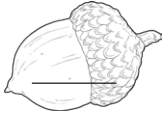| Red:	Orange:	Yellow:	Green:	Dark Brown:	Light Brown:	Pink:
1 - 10	11 - 30	31 - 50	51 - 60	61 - 70	71 - 80	80 - 100

Autumn Sorting

Organise the numbers on the acorns from smallest to greatest.

1.

804	408	840	480	808

2.

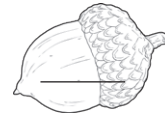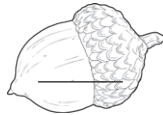| 951	519	159	915	591

3.

2564	5624	4526	4256	2546

4.

8457	7584	8754	4758	7548

5.

6015	6501	6051	6510	5610
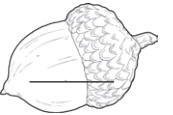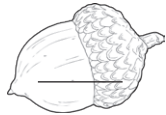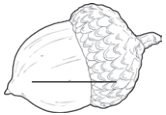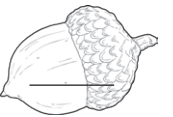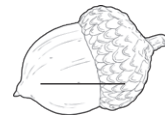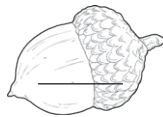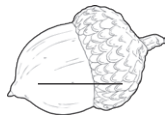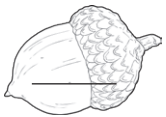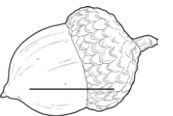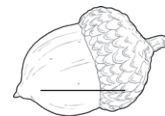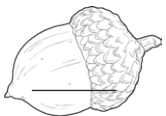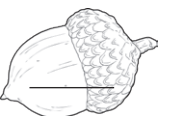
Counting in 7s Maze

Help the squirrel find a path through the acorn maze by counting on in sevens from zero.

0	14	35	42	28	35	42
7		28		21		49
14	21	28	56	63	70	56
28		35		56		63
7	14	56	49	42	56	63	70	77
14		63		56		140		147
84	77	70	126	140	147	154	133	140
91		133		133		161
98	105	112	119	126	119	168
112		105		140		175
98	112	133	126	119	161	168

Multiplication and Division Facts Autumn Mosaic

Solve the calculations to reveal the hidden picture. Each answer has a special colour.

brown = 1 – 8	blue = 9 – 25	red = 26 – 50	orange = 51 – 99	yellow = 100 – 144

5 × 4	9 × 2	2 × 8	3 × 7	12 × 12	6 × 5	7 × 7	12 × 4	7 × 7
108 ÷ 12	70 ÷ 7	4 × 6	9 × 4	5 × 9	63 ÷ 9	12 × 4	9 × 12	4 × 9
8 × 8	12 × 5	84 ÷ 7	9 × 12	7 × 6	4 × 9	16 ÷ 8	7 × 7	11 × 12
9 × 8	11 × 12	11 × 7	7 × 6	24 ÷ 8	11 × 11	32 ÷ 8	4 × 9	7 × 1
9 × 7	12 × 6	10 × 11	11 × 5	6 × 5	20 ÷ 4	72 ÷ 9	15 ÷ 3	4 × 7
11 × 5	63 ÷ 9	6 × 12	7 × 9	96 ÷ 8	7 × 7	49 ÷ 7	25 ÷ 5	12 × 12
35 ÷ 7	64 ÷ 8	56 ÷ 8	9 × 12	3 × 7	40 ÷ 4	42 ÷ 6	32 ÷ 8	5 × 5
10 × 10	3 × 2	7 × 8	108 ÷ 9	8 × 3	100 ÷ 10	3 × 2	36 ÷ 6	4 × 6
110 ÷ 11	20 ÷ 4	3 × 3	81 ÷ 9	121 ÷ 11	8 × 3	18 ÷ 3	11 ÷ 11	110 ÷ 11
84 ÷ 7	40 ÷ 8	99 ÷ 9	132 ÷ 11	6 × 4	80 ÷ 8	20 ÷ 4	1 × 7	3 × 3

Autumn Time I Spy and Show

Count the autumn-themed objects and create a bar chart of how many of each item you found.
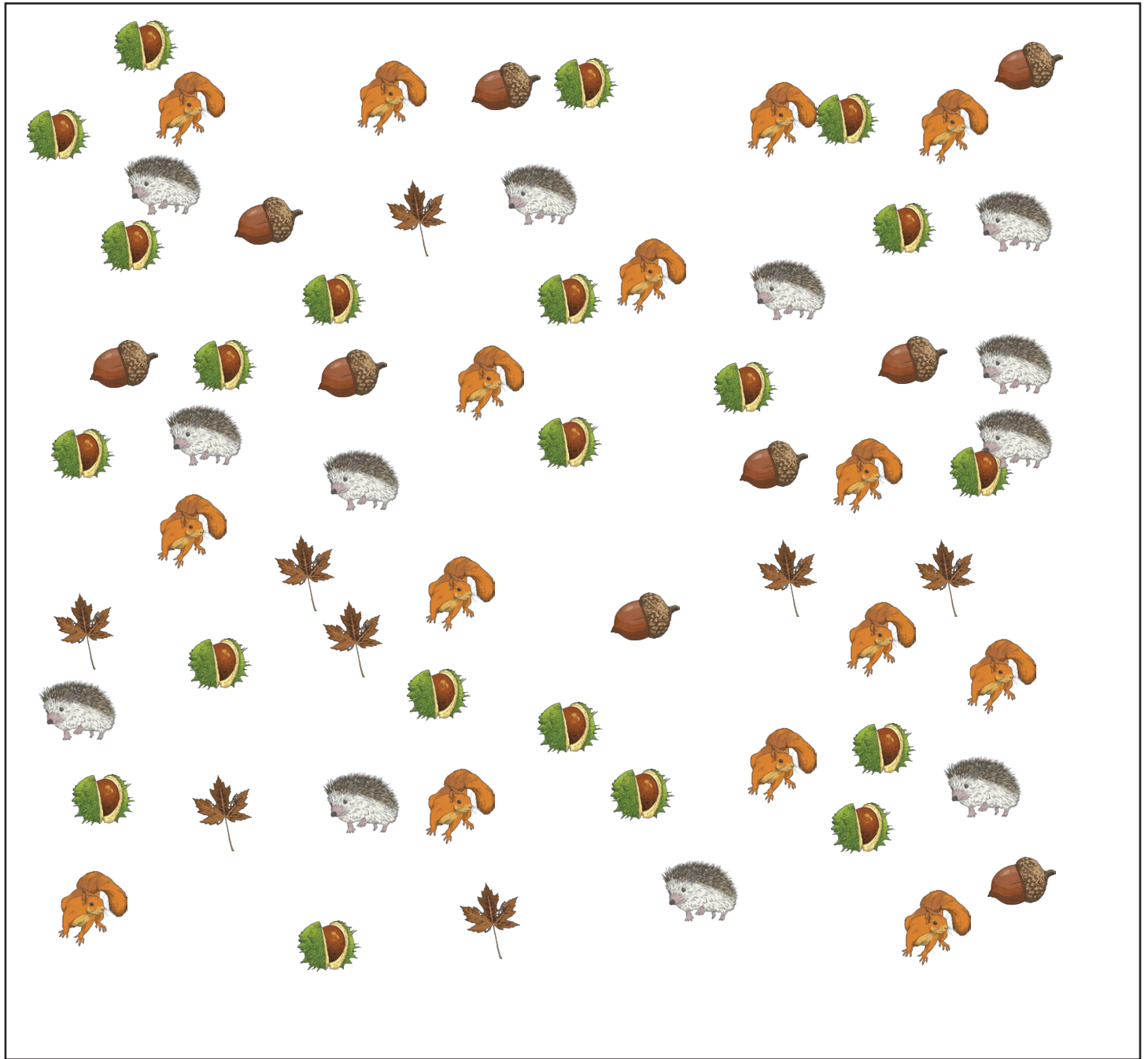
Autumn-Themed Item	Number
Squirrel	
Acorn	
Conker	
Hedgehog	
Leaf	

Autumn Time I Spy and Show

A Bar Chart to Show the Number of Autumn-Themed Objects Found

22				
20				
18				
16				
14				
12				
10				
8				
6				
4				
2				
0				

Squirrel   Acorn   Conker   Hedgehog   Leaf

Autumn-Themed Object
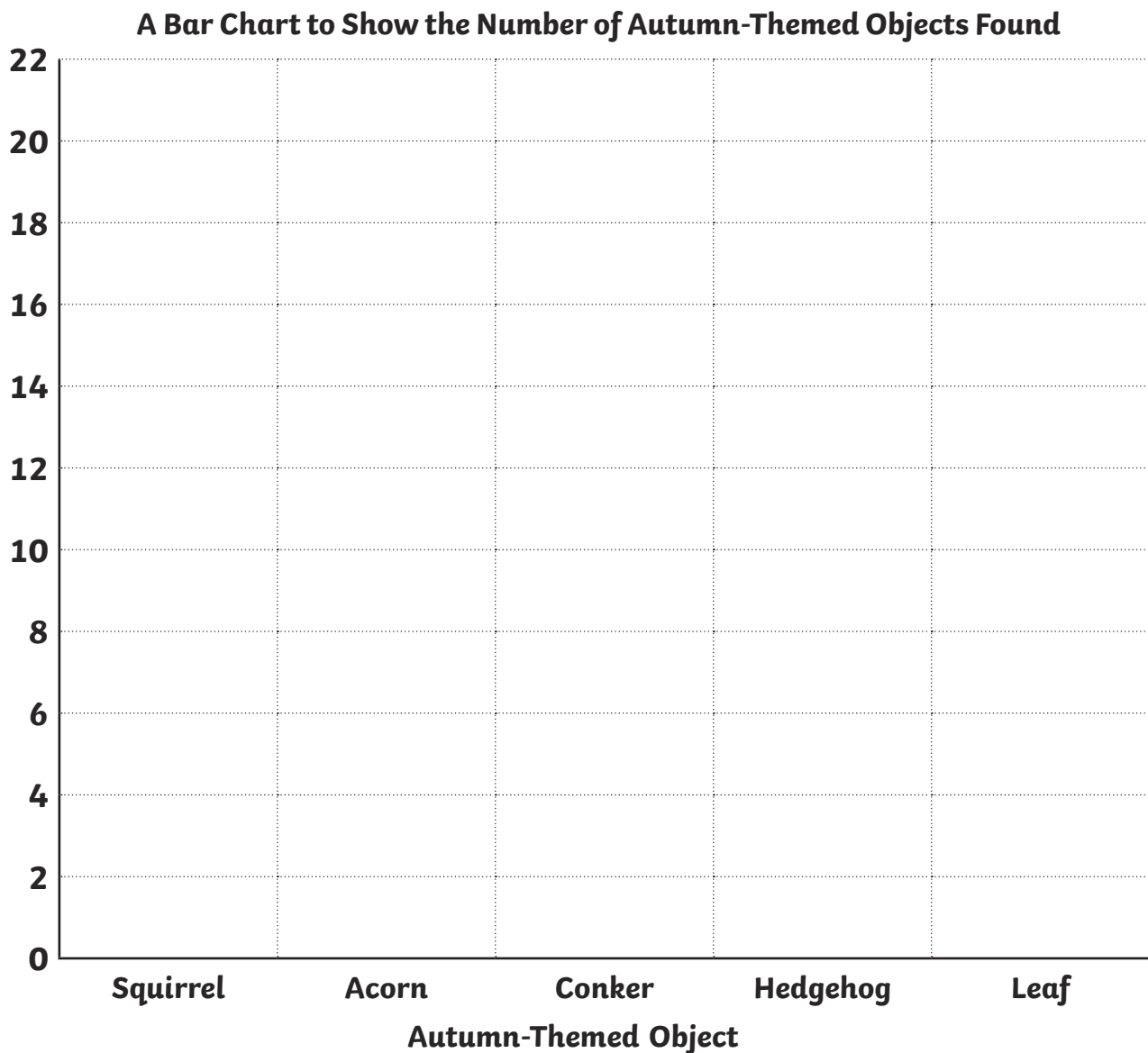
How many more conkers were found than acorns? _____

How many animals were found in total? _____

There were more animals than conkers. Is this true or false? _____

_____

How many objects were found in total? _____

Counting in Multiples Dot to Dots

Count on in multiples to join the dots and complete the picture.

A star dot ★ shows the end of a line. When you reach a star dot, start a new line from the next dot.

108

102   114
        120
96   132
84
90   126

48 ★

★ 78

72

42
36   30
24   66   60
18   12   54

6

198

189   180
207   171
162   153
144

54

27
63
45   135
126   144
36
108
18   99   117
81   90
9
72
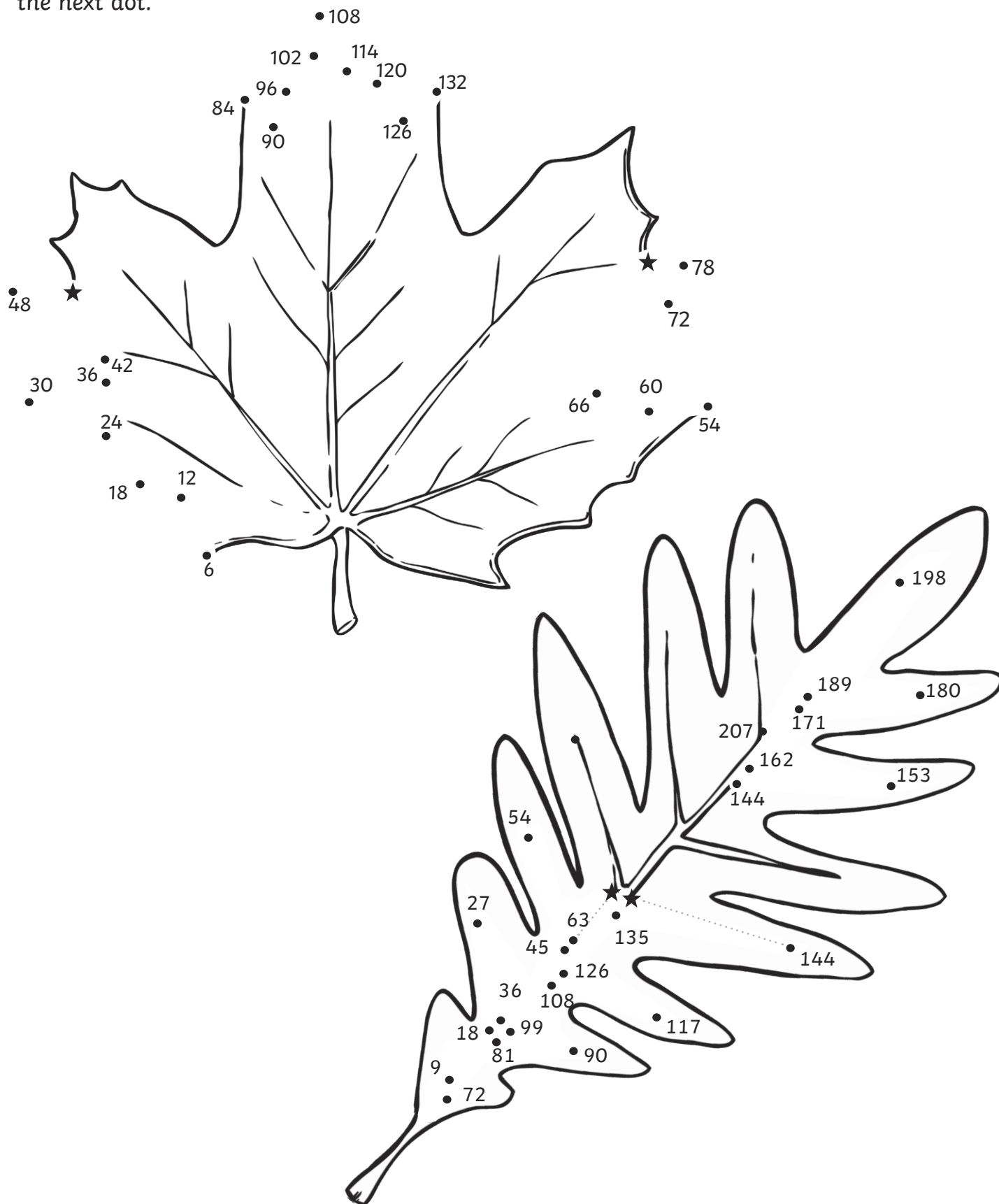
Autumn Measures

Read the digital scales and calculate the mass of one item.

Show your working out in each box. The first one has been done for you.

42 ÷ 7 = 6

= 6g

_____

= _____

_____

= _____

_____

= _____

_____

_____

= _____
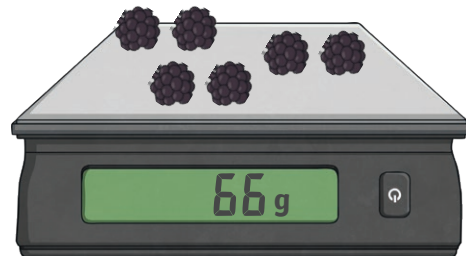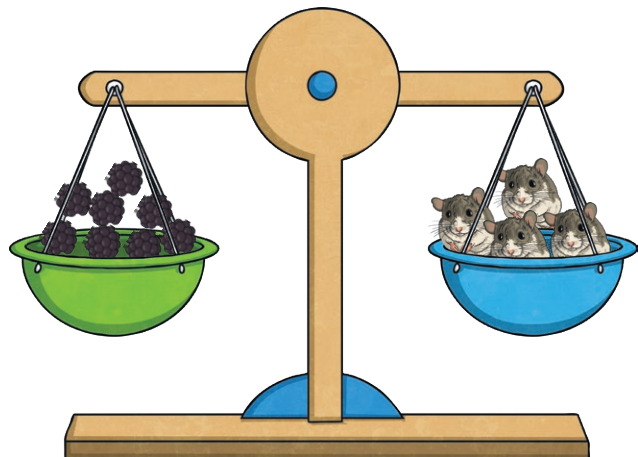
Autumn Measures

Calculate the length of one item.

Write the calculation you use. The first one has been done for you.
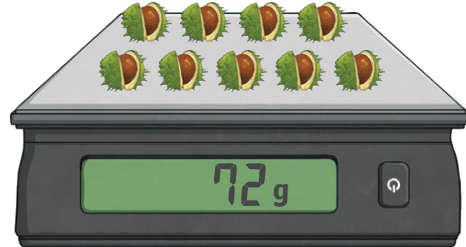
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200 ÷ 5 = 40

🍃 = **40 mm**

180 190 200 210 220

_____

🐭 = _____ cm

81 82 83 84 85 86 87

_____

🌰 = _____ cm

240 250 260 270 280 290 300

🍃 = _____

_____

🐭 = _____

57 58 59 60 61 62 63
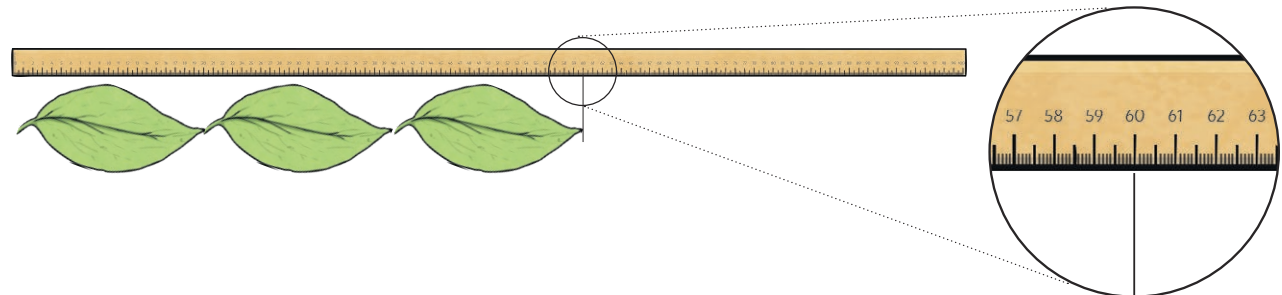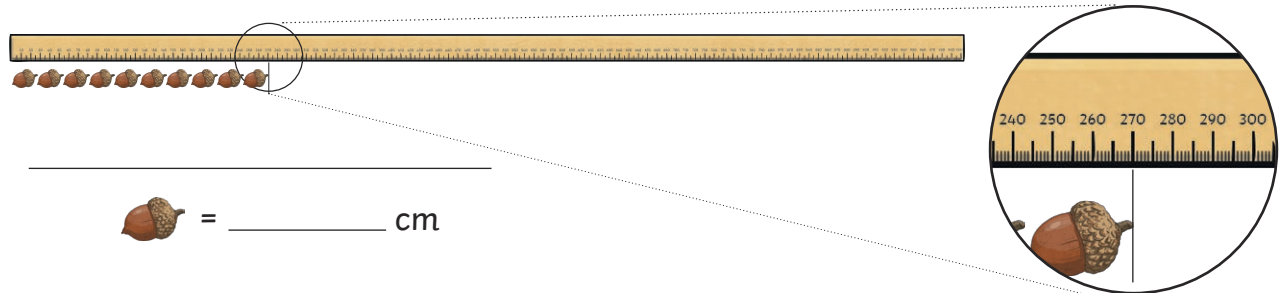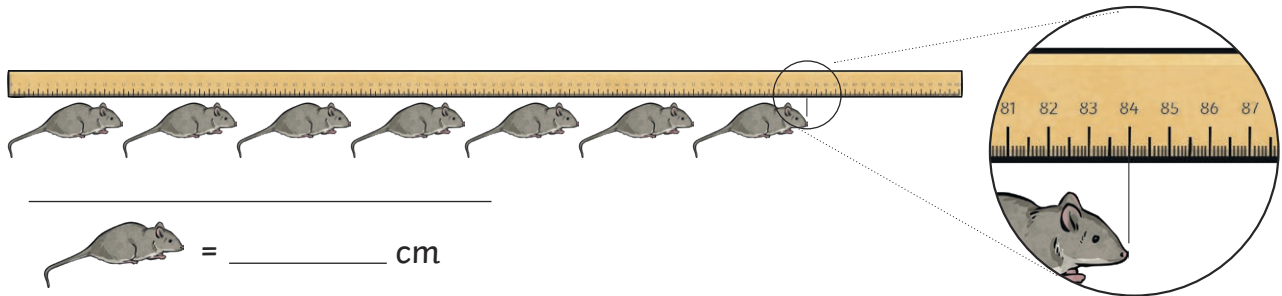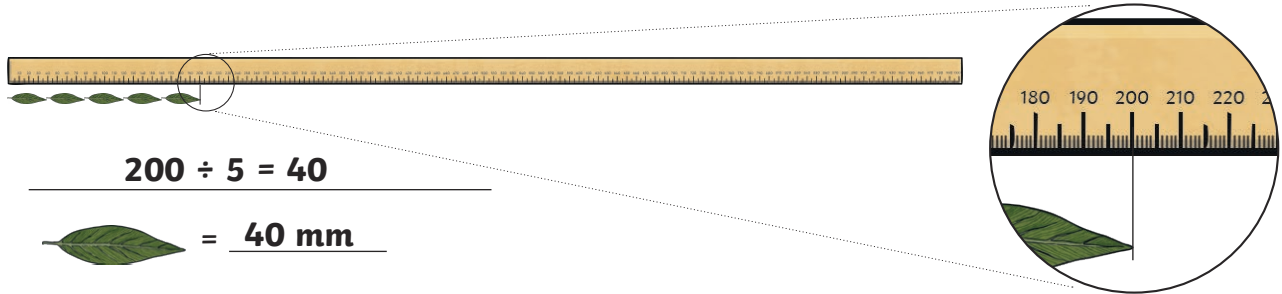
Autumn Code Breaker

Solve the calculations and use the code breaker to spell out the autumn-themed words.

A	B	C	D	E	F	G	H	I	J	K	L	M
26	25	24	23	22	21	20	19	18	17	16	15	14

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
13	12	11	10	9	8	7	6	5	4	3	2	1

	Answer	Letter
235 - 211		
72 ÷ 6		
171 - 158		
$\frac{4}{5}$ of 20		
7 + 8 + 7		
108 ÷ 12		

	Answer	Letter
81 ÷ 9		
2 × 11		
113 - 90		

	Answer	Letter
3 × 7		
2 × 9		
63 ÷ 7		
$\frac{2}{3}$ of 33		
$\frac{1}{4}$ of 16		
$\frac{1}{10}$ of 120		
60 - 51		
5 + 7 + 4		

	Answer	Letter
121 ÷ 11		
$\frac{1}{6}$ of 36		
6 + 3 + 5		
66 - 55		
4 + 4 + 4 + 4		
50 - 32		
130 ÷ 10		
72 ÷ 9		

	Answer	Letter
3 × 5		
66 ÷ 3		
100 - 74		
$\frac{3}{4}$ of 28		

	Answer	Letter
100 - 81		
$\frac{1}{4}$ of 104		
81 ÷ 9		
25 ÷ 5		
45 - 23		
99 - 91		
700 ÷ 100		

Autumn Fractions

Write a fraction sentence for each picture. The first one has been done for you.

$\frac{2}{3}$ of 6 = 4

Can you draw some autumn-themed pictures to go with each fraction sentence?
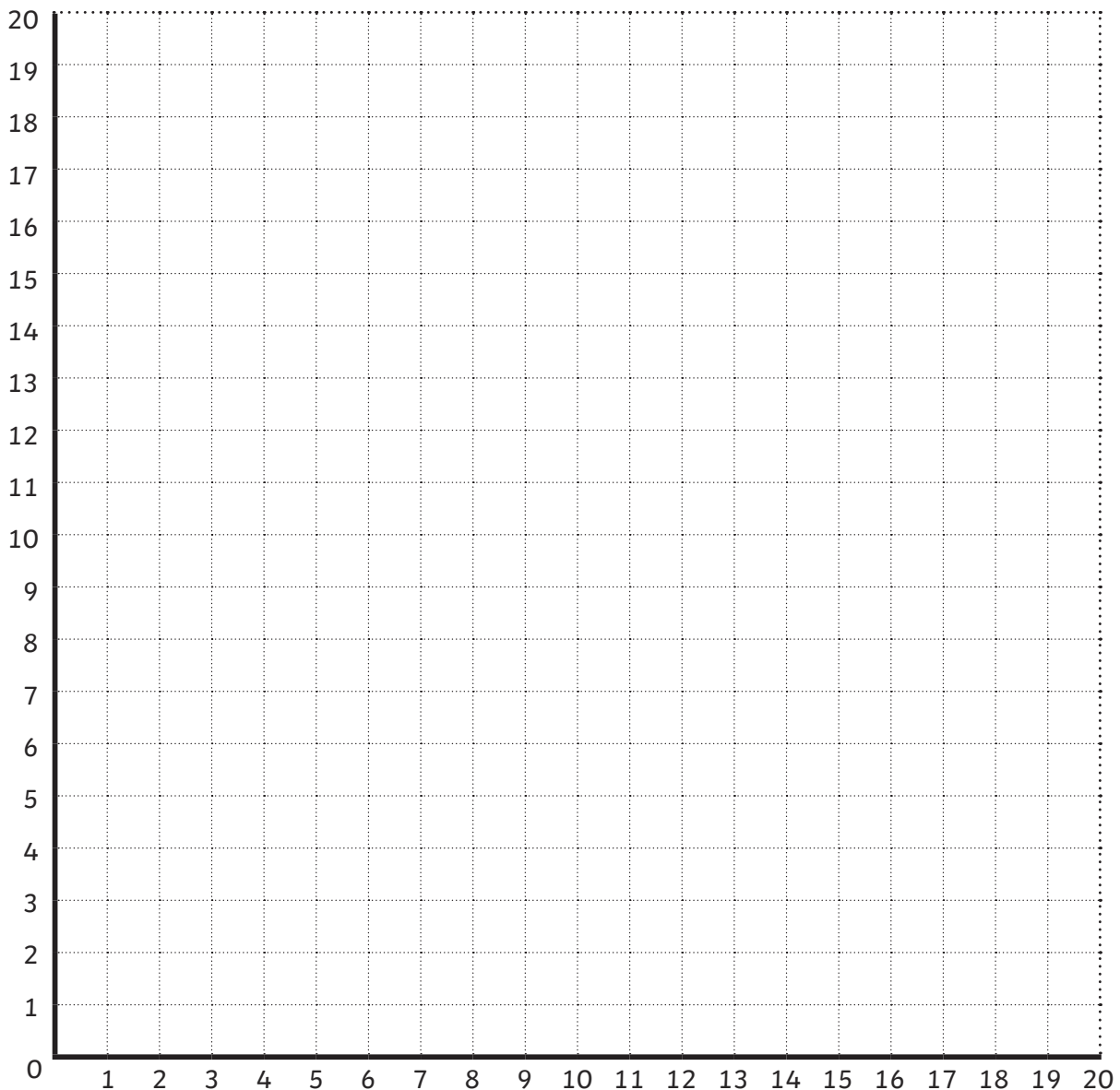
$\frac{1}{2}$ of 10 = 5

$\frac{3}{4}$ of 8 = 6

$\frac{2}{3}$ of 9 = 6

$\frac{2}{5}$ of 20 = 8

Coordinates Mystery Picture

Draw the shapes made by these coordinates:

Line 1	(4, 9) (12,17) (16, 13) (8, 5) (4, 9)
Line 2	(11, 18) (17, 18) (17, 12) (11, 18)
Line 3	(5, 8) (2, 5) (4, 3) (7, 6)
Line 4	(3, 4) (0, 1)
Line 5	(2, 5) (1, 5) (0, 6) (0, 9) (3, 15)
Line 6	(3, 15) (4, 12) (4, 15) (6, 15) (4, 16) (5, 18) (3, 17) (1, 19) (2, 16) (1, 14) (3, 15)

Autumn Place Value Code Breaker

This sheet is similar to https://www.twinkl.co.uk/resource/t-c-7707-bonfire-night-themed-place-value-code-breaking-activity-sheets

2	3	1	8	7	6	9	8	5
acorn	leaf	firework	pumpkin	hedgehog	apple	bonfire	conker	blackberry

Use the code breaker to work out the place value of certain digits in these numbers.

Example:

In the number [firework] [leaf] [hedgehog], what is [leaf] worth? _____**30**_____

In the number [pumpkin] [acorn] [apple] [acorn], what is [pumpkin] worth? _____

In the number [bonfire] [hedgehog] [apple] [conker], what is [hedgehog] worth? _____

In the number [leaf] [blackberry] [hedgehog] [hedgehog], what is [hedgehog] worth? _____

In the number [hedgehog] [leaf] [firework] [acorn], what is [firework] worth? _____

In the number [firework] [hedgehog] [leaf] [pumpkin], what is [firework] worth? _____

In the number [pumpkin] [apple] [pumpkin] [conker], what is [apple] worth? _____

Autumn Walk Board Game

You will need:

- counters

- a dice

- pencil

Instructions

Each player starts the game with 200 points.

Take turns to throw the dice and move your counter around the board.

When you land on a square, add or subtract the points on that square to or from your score.

When a player reaches the finish, the player with the most points is the winner.

Keep track of your score here:

Name:	Name:	Name:	Name:
200	**200**	**200**	**200**

Start	+ 72	+ 39			
		- 28	+ 66	+ 48	+ 15

- 47

Finish					
+ 50	- 19	+ 46	- 32		+ 12
			+ 34		+ 26
- 32	+ 29	- 23	+ 92		- 33
+ 58					+ 82
- 30	+ 46	+ 29	- 55	86	+ 18