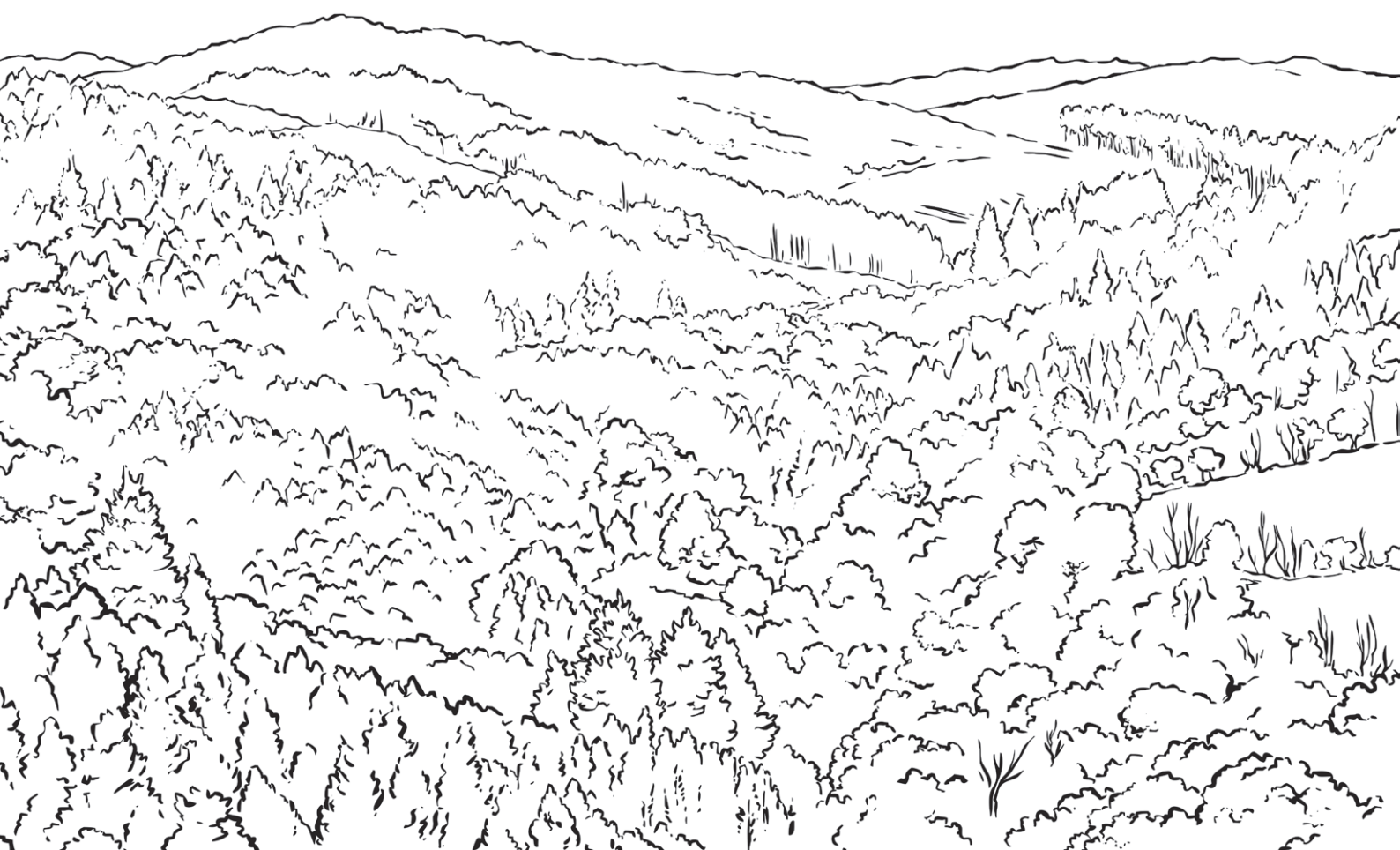


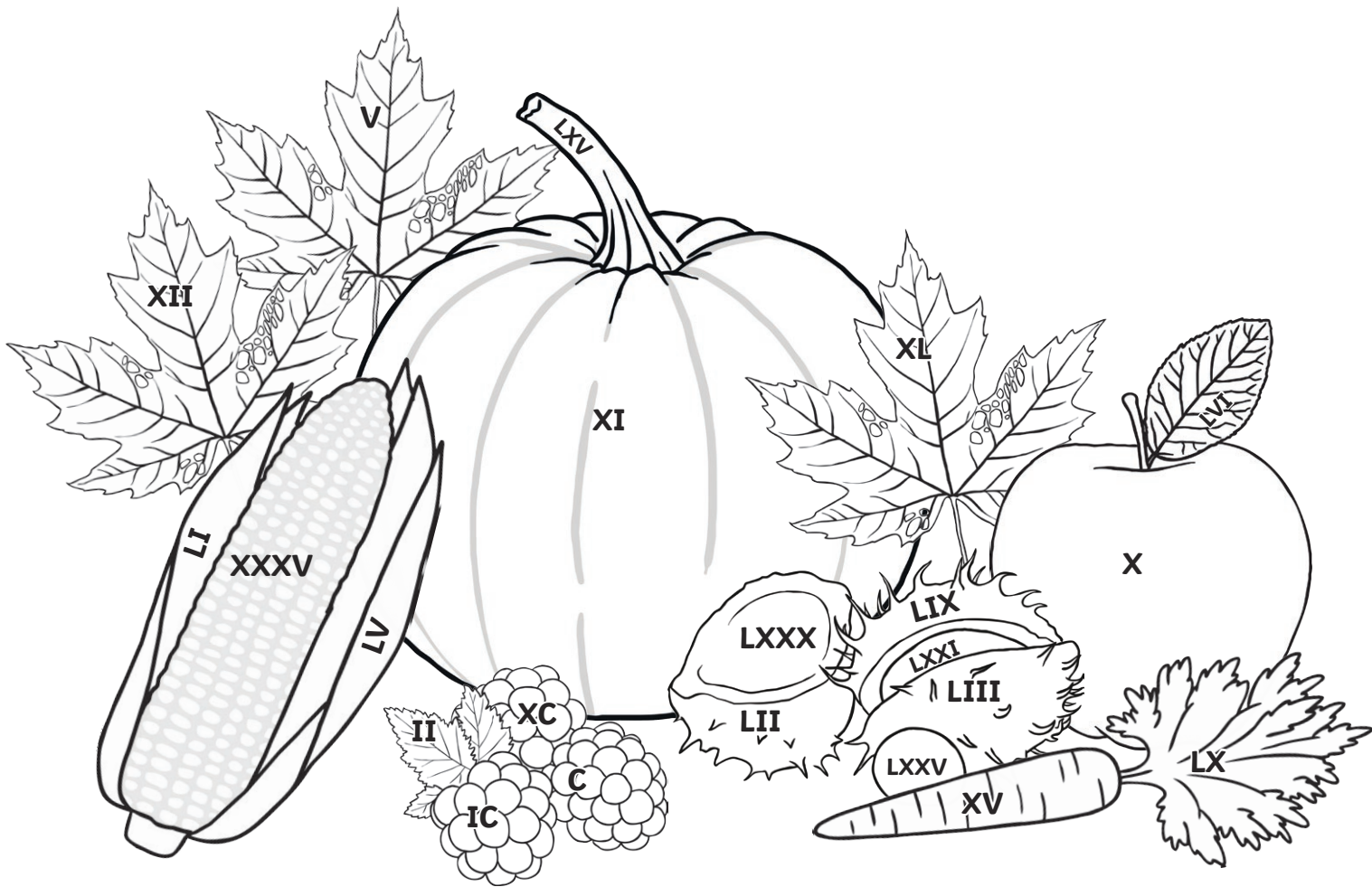
Year 4 Autumn-Themed Maths Activity Booklet **Answers**



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



V = 5

XC = 90

LXXX = 80

LIII = 53

XII = 12

C = 100

LII = 52

LXXI = 71

LI = 51

IC = 99

LXXV = 75

LIX = 59

XXXV = 35

LXV = 65

XV = 15

XL = 40

II = 2

XI = 11

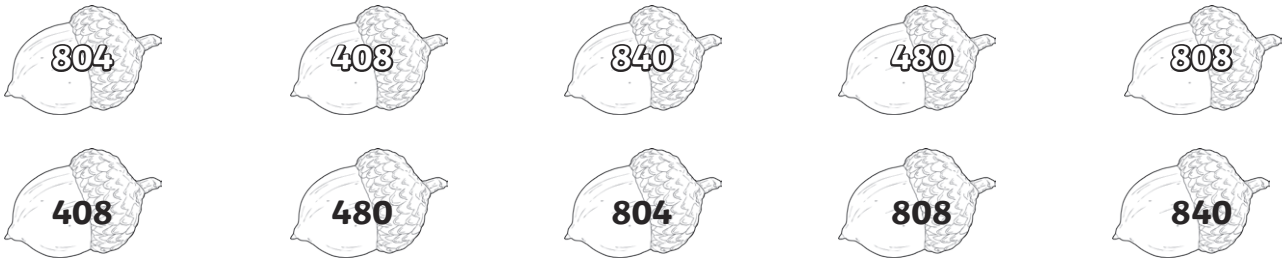
LX = 60

LVI = 56

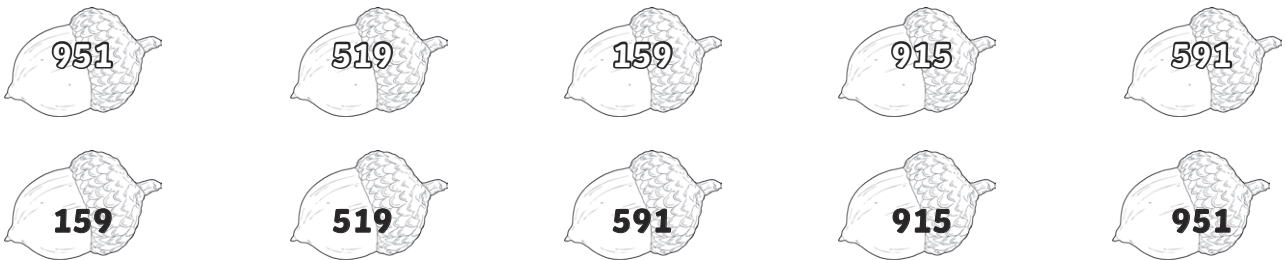
Autumn Sorting

Organise the numbers on the acorns from smallest to greatest.

1.



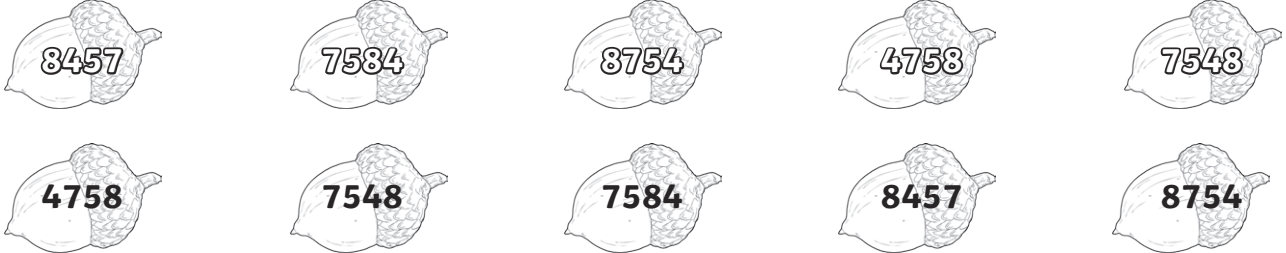
2.



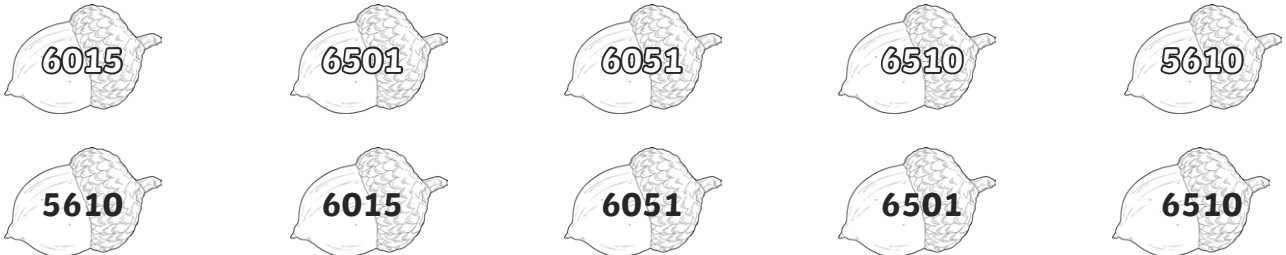
3.



4.



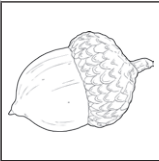
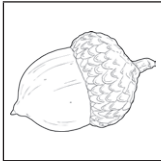
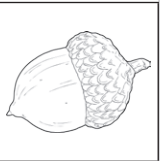
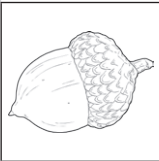
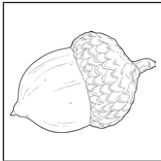
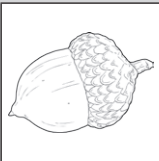
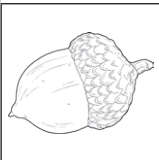
5.



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
14		63		56		140	
84	77	70	126	140	147	154	133
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

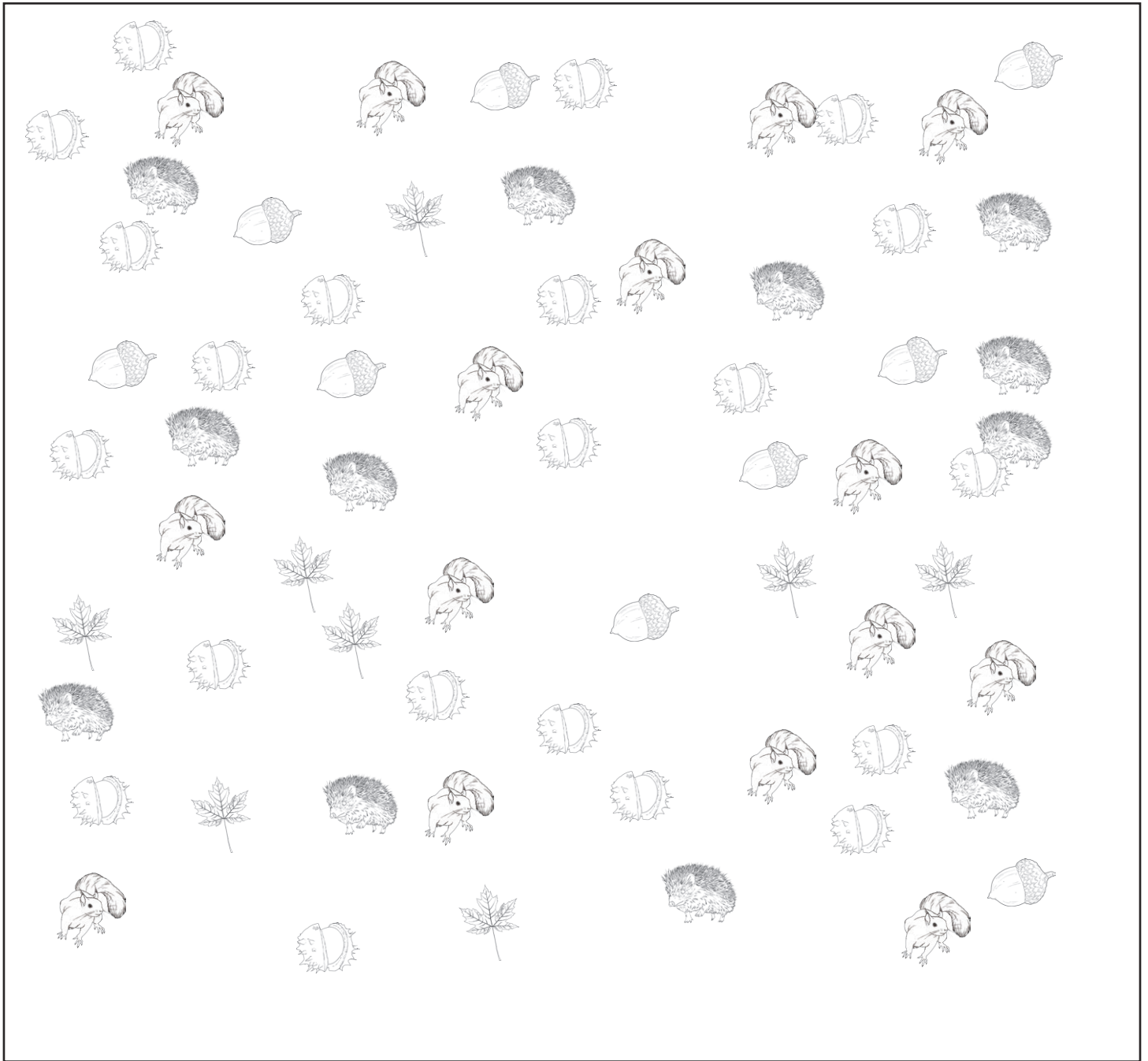
orange =
51 – 99

yellow
= 100 – 144

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

Autumn Time I Spy and Show

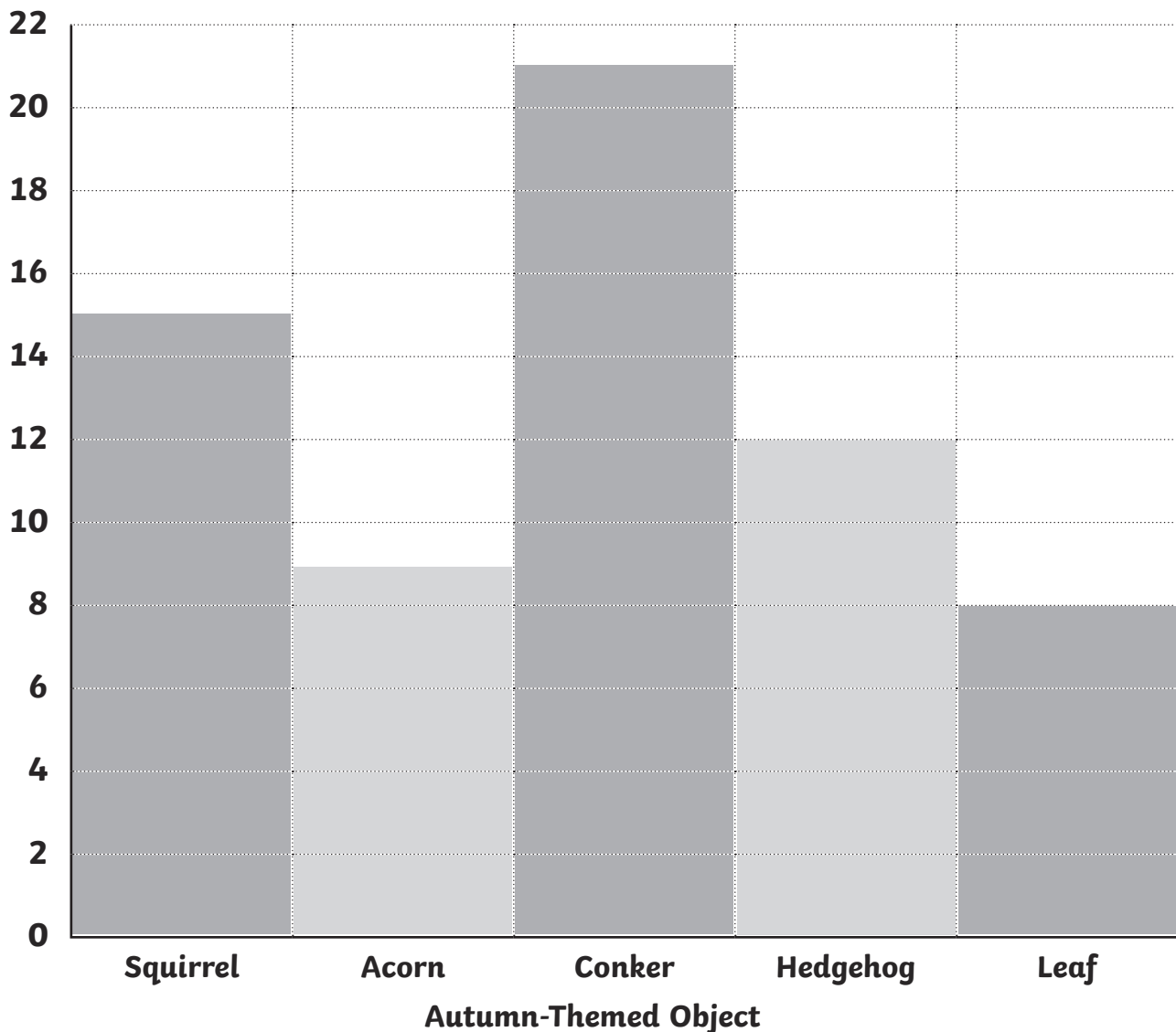
Count the autumn-themed objects and create a bar chart of how many of each item you found.



Autumn-Themed Item	Number
Squirrel	15
Acorn	9
Conker	21
Hedgehog	12
Leaf	8

Autumn Time I Spy and Show

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



How many more conkers were found than acorns? $21 - 9 = 12$

How many animals were found in total? $15 + 12 = 27$

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

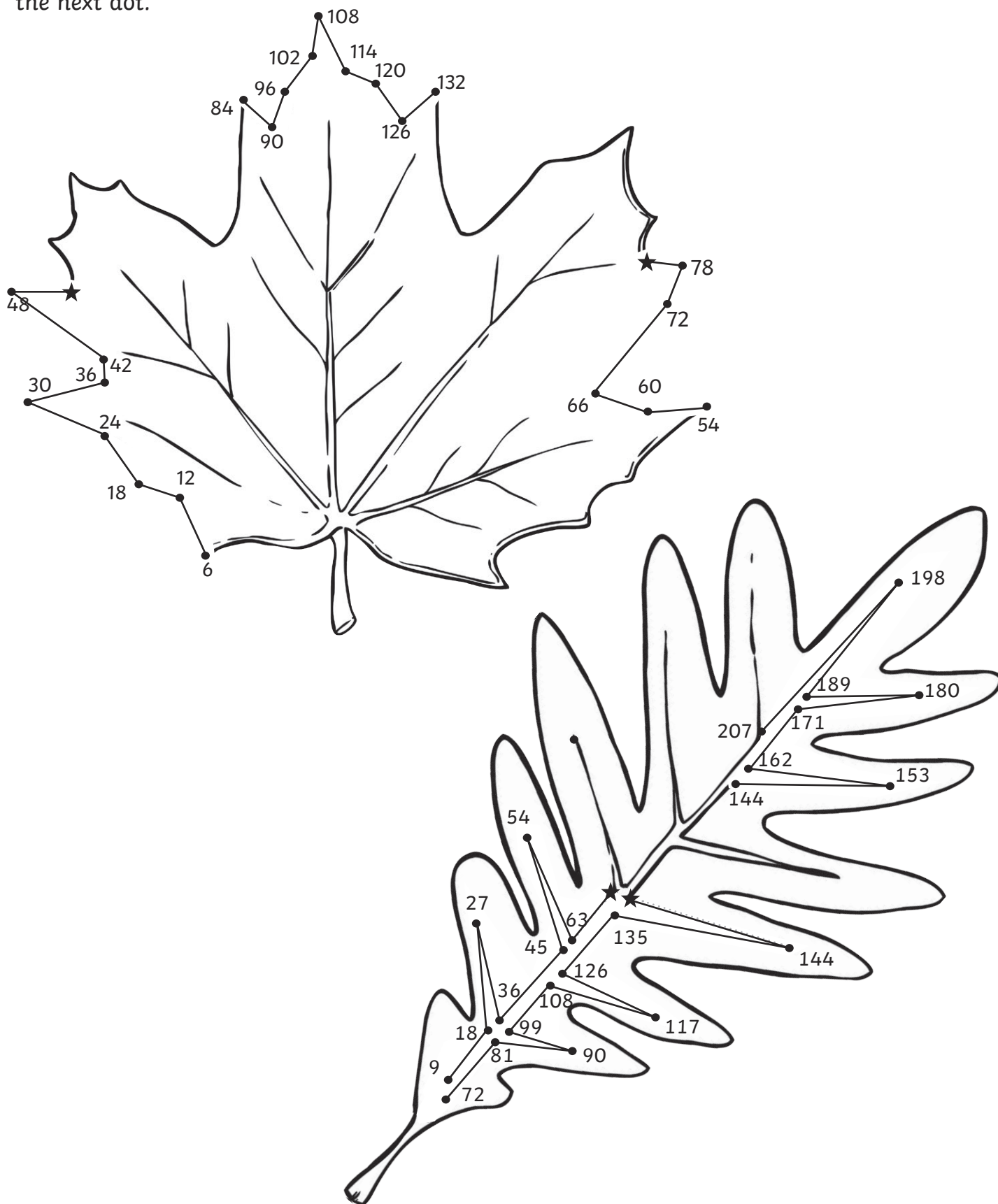
True – there were 27 animals and 21 conkers.

How many objects were found in total? $15 + 9 + 21 + 12 + 8 = 65$

Counting in Multiples Dot to Dots

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

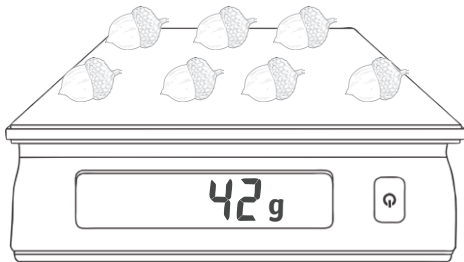
A star dot ★ shows the end of a line. When you reach a star dot, start a new line from the next dot.



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.



$$42 \div 7 = 6$$

$$\text{acorn} = 6\text{g}$$



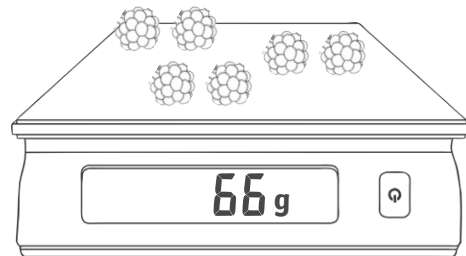
$$72 \div 9 = 8$$

$$\text{chestnut} = 8\text{g}$$



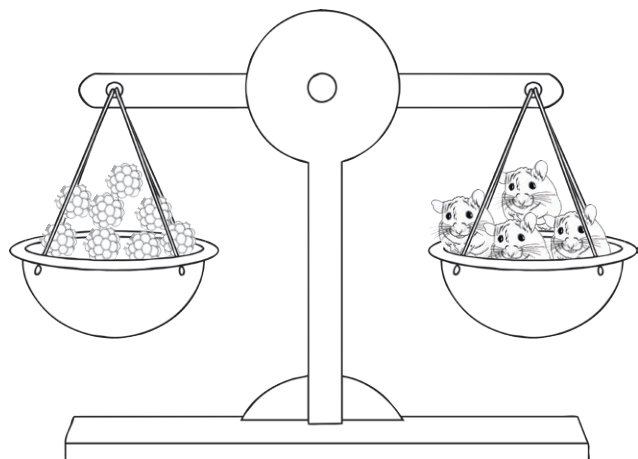
$$968 \div 2 = 484$$

$$\text{hedgehog} = 484\text{g}$$



$$66 \div 6 = 11$$

$$\text{raspberry} = 11\text{g}$$



$$8 \times 11 = 88$$

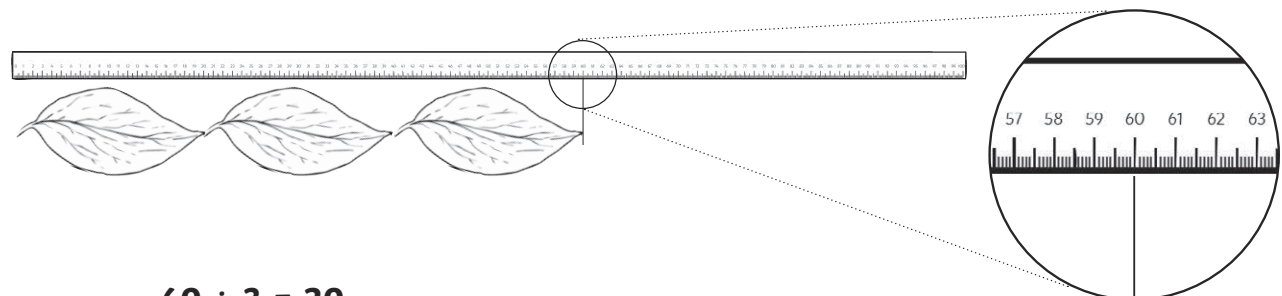
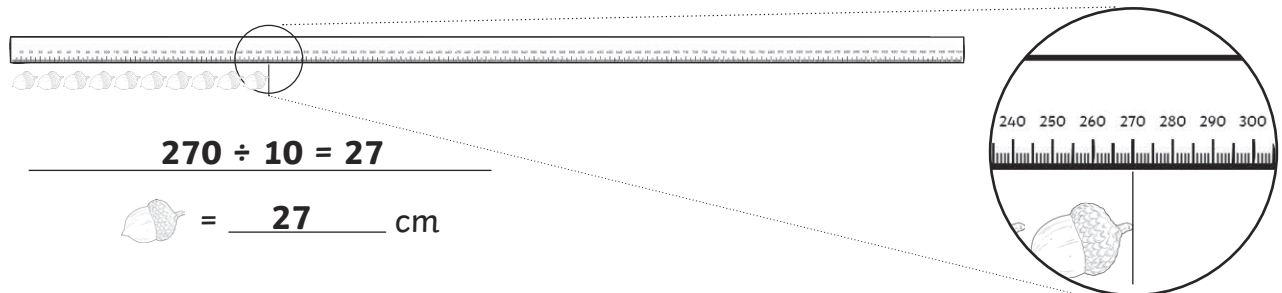
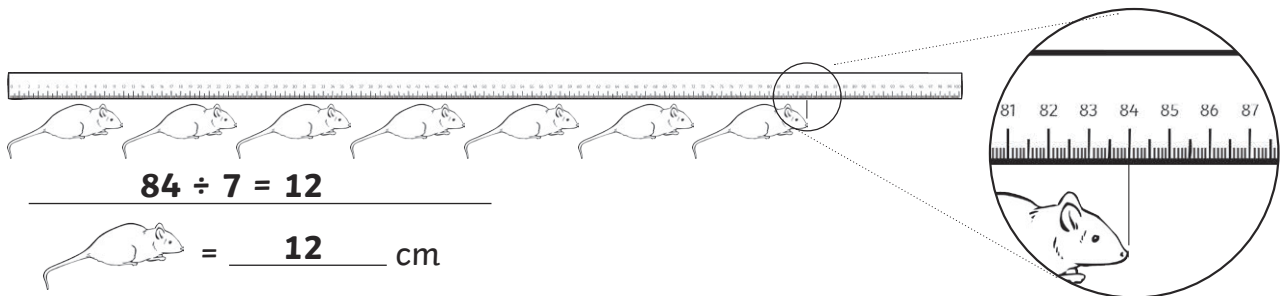
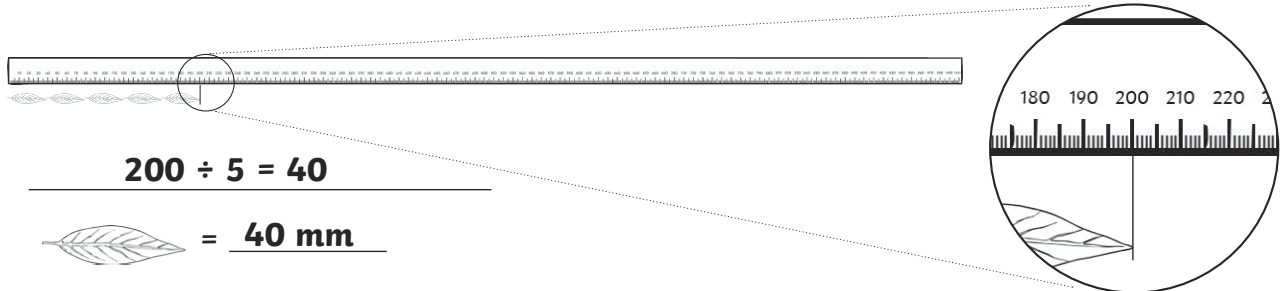
$$88 \div 4 = 22$$

$$\text{mouse} = 22\text{g}$$

Autumn Measures

Calculate the length of one item.

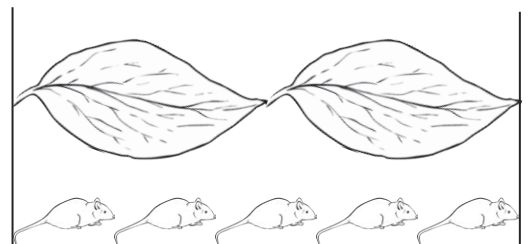
Write the calculation you use. The first one has been done for you.



$$2 \times 20 = 40$$

$$40 \div 5 = 8$$

$= 8 \text{ cm}$



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	24	C
72 ÷ 6	12	O
171 - 158	13	N
$\frac{4}{5}$ of 20	16	K
7 + 8 + 7	22	E
108 ÷ 12	9	R

	Answer	Letter
3 × 7	21	F
2 × 9	18	I
63 ÷ 7	9	R
$\frac{2}{3}$ of 33	22	E
$\frac{1}{4}$ of 16	4	W
$\frac{1}{10}$ of 120	12	O
60 - 51	9	R
5 + 7 + 4	16	K

	Answer	Letter
3 × 5	15	L
66 ÷ 3	22	E
100 - 74	26	A
$\frac{3}{4}$ of 28	21	F

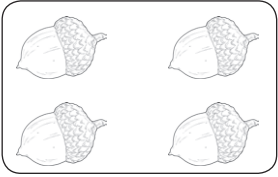
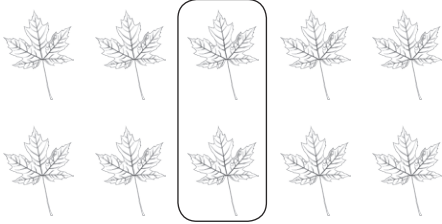
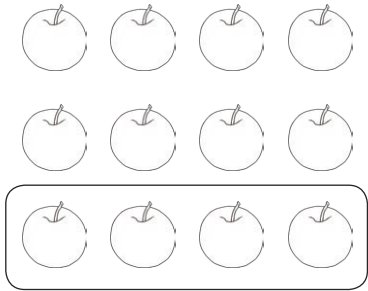
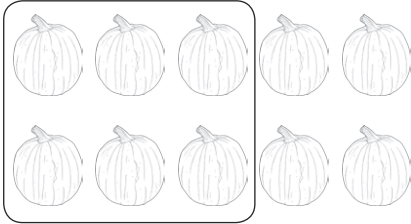
	Answer	Letter
81 ÷ 9	9	R
2 × 11	22	E
113 - 90	23	D

	Answer	Letter
121 ÷ 11	11	P
$\frac{1}{6}$ of 36	6	U
6 + 3 + 5	14	M
66 - 55	11	P
4 + 4 + 4 + 4	16	K
50 - 32	18	I
130 ÷ 10	13	N
72 ÷ 9	8	S

	Answer	Letter
100 - 81	19	H
$\frac{1}{4}$ of 104	26	A
81 ÷ 9	9	R
25 ÷ 5	5	V
45 - 23	22	E
99 - 91	8	S
700 ÷ 100	7	T

Autumn Fractions

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

 $\frac{2}{3}$ of 6 = 4	 $\frac{1}{5}$ of 10 = 2	 $\frac{1}{3}$ of 12 = 4
 $\frac{3}{4}$ of 20 = 15	 $\frac{3}{5}$ of 10 = 6	 $\frac{5}{6}$ of 18 = 15

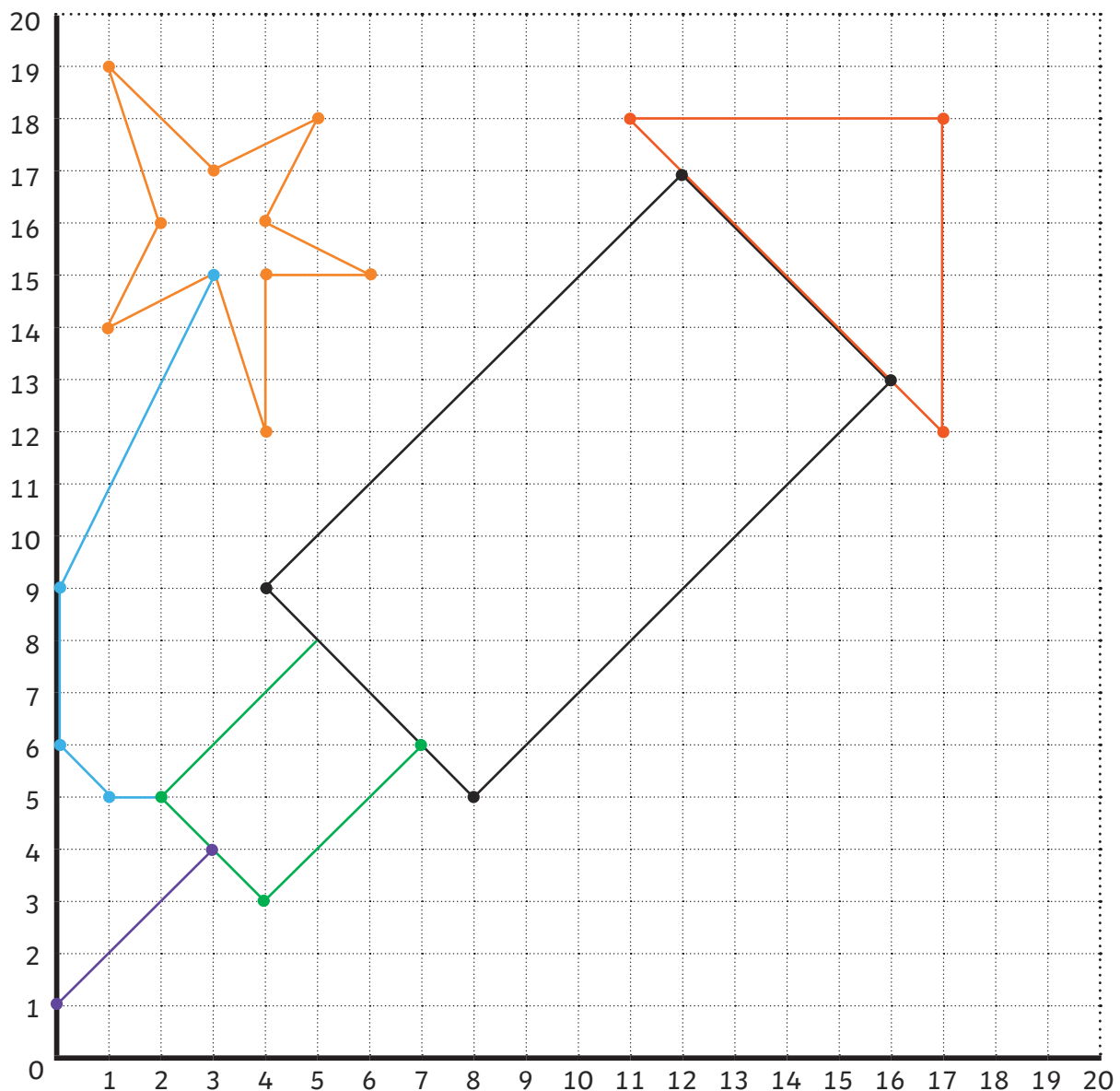
Can you draw some autumn-themed pictures to go with each fraction sentence?

Pupil's own answer showing 10 items, 5 of which are contained within a circle. $\frac{1}{2}$ of 10 = 5	Pupil's own answer showing 8 items, 6 of which are contained within a circle. $\frac{3}{4}$ of 8 = 6
Pupil's own answer showing 9 items, 6 of which are contained within a circle. $\frac{2}{3}$ of 9 = 6	Pupil's own answer showing 20 items, 8 of which are contained within a circle. $\frac{2}{5}$ of 20 = 8

Coordinates Mystery Picture

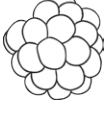
Draw the shapes made by these coordinates:

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
								

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

Example:

In the number    , what is  worth? 30

In the number     , what is  worth? 8000

In the number     , what is  worth? 700

In the number     , what is  worth? 3000

In the number     , what is  worth? 10

In the number     , what is  worth? 1000

In the number     , what is  worth? 600