Year 5 Autumn-Themed
Maths Activity Booklet
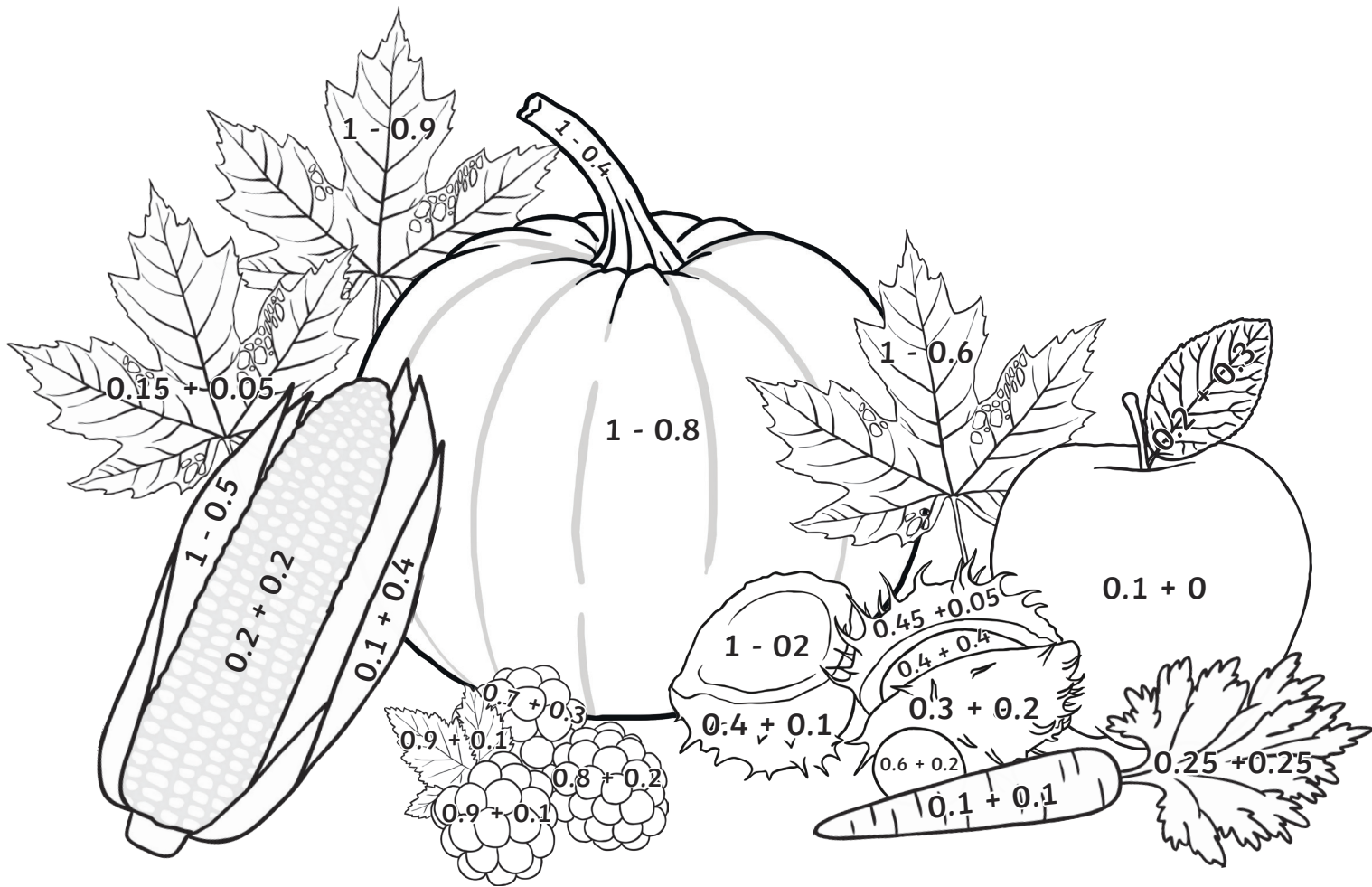
Name: _____

Colour by Calculations

Solve the calculations and use the key to colour each part of the autumn-themed picture.

Red:	Orange:	Yellow:	Green:	Dark Brown:	Light Brown:	Pink:
0.1	0.2	0.4	0.5	0.6	0.8	1

1 - 0.9

1 - 0.4

1 - 0.6

0.15 + 0.05

0.2 + 0.3

1 - 0.8

1 - 0.5

0.2 + 0.2

0.1 + 0.4

0.1 + 0

0.45 + 0.05

0.7 + 0.3

1 - 02

0.4 + 0.4

0.9 + 0.1

0.8 + 0.2

0.3 + 0.2

0.4 + 0.1

0.6 + 0.2

0.25 + 0.25

0.9 + 0.1

0.1 + 0.1

Place Value Code Breaker

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

2	3	1	8	7	6	9	8	5
acorn	oak leaf	sparkler	pumpkin	hedgehog	apple	campfire	chestnut	maple leaf

Example:

In the number [oak leaf] [hedgehog] [apple] [hedgehog] [hedgehog] what is [oak leaf] worth?

_____ **30 000**

1. In the number [pumpkin] [apple] [acorn] [hedgehog] [apple] [acorn] what is [pumpkin] worth?

_____

2. In the number [campfire] • [hedgehog] [apple] [chestnut] what is [hedgehog] worth?

_____

3. In the number [oak leaf] [maple leaf] [maple leaf] [hedgehog] [hedgehog] [sparkler] what is [oak leaf] worth?

_____

4. In the number [hedgehog] [oak leaf] • [oak leaf] [sparkler] [acorn] what is [sparkler] worth?

_____

5. In the number [hedgehog] [oak leaf] [sparkler] [hedgehog] [oak leaf] [pumpkin] what is [sparkler] worth?

_____

6. In the number [pumpkin] [hedgehog] [oak leaf] • [pumpkin] [chestnut] [apple] what is [apple] worth?

_____

Calculations Code Breaker

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

A	B	C	D	E	F	G	H	I	J	K	L	M
3	23	13	20	6	10	1	15	19	24	4	9	17

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	2	7	21	11	25	8	26	16	5	22	12	18

	Answer	Letter
1.3 × 10		
400 ÷ 200		
126 ÷ 9		
2^2		
0.06 × 100		
121 ÷ 11		

	Answer	Letter
0.1 × 100		
1900 ÷ 100		
1100 ÷ 100		
6000 ÷ 1000		
200 ÷ 40		
1000 ÷ 500		
0.11 × 100		
160 ÷ 40		

	Answer	Letter
3^2		
60 ÷ 10		
75 ÷ 25		
1000 ÷ 100		

	Answer	Letter
0.11 × 100		
240 ÷ 40		
400 ÷ 20		

	Answer	Letter
0.07 × 100		
2.6 × 10		
170 ÷ 10		
140 ÷ 20		
0.4 × 10		
1900 ÷ 100		
1.4 × 10		
5^2		

	Answer	Letter
0.15 × 100		
300 ÷ 100		
1.1 × 10		
4^2		
600 ÷ 100		
200 ÷ 8		
80 ÷ 10		

Roman Numerals Autumn Mosaic

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

brown = 1 – 50	blue = 51 – 100	red = 101 – 300	orange = 301 – 500	yellow = 501 – 1000

LI	LX	LXX	C	DCCI	CII	CV	CCI	CXXI
LIII	XCI	XC	CCL	CLI	L	CCI	M	CXC
CCCI	CCCL	LXXI	DCCX	CLX	CCIII	X	CIX	CM
CD	CMIV	D	CLXI	I	DCIX	VII	CXLI	XI
CDL	CCCV	DLV	CCCLV	CCC	II	VI	XL	CCII
CDII	XXII	CDX	CDXV	LXXV	CV	XL	XXXI	CMXXI
III	XVI	X	CMXL	XCV	LIV	IV	XXV	LV
CMI	IV	CDXC	LXXX	LVII	LIX	XVIII	VIII	LXXV
LXXXV	XXXI	LIII	LVII	LVI	LX	XXVI	XXIX	XCVI
LXXI	XXIV	LXXIV	LXIX	LXXV	LXXXIII	XLV	IX	XCIX

twinkl

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.

49 g

49 ÷ 7 = 7

🌰 = 7g

72 g

_____

🌰 = _____

2904 g

_____

🦔 = _____

720 g

_____

🍎 = _____

_____

_____

🐦 = _____
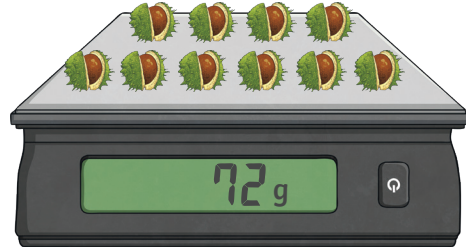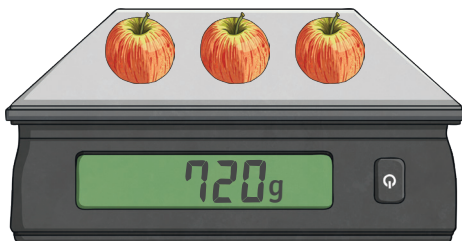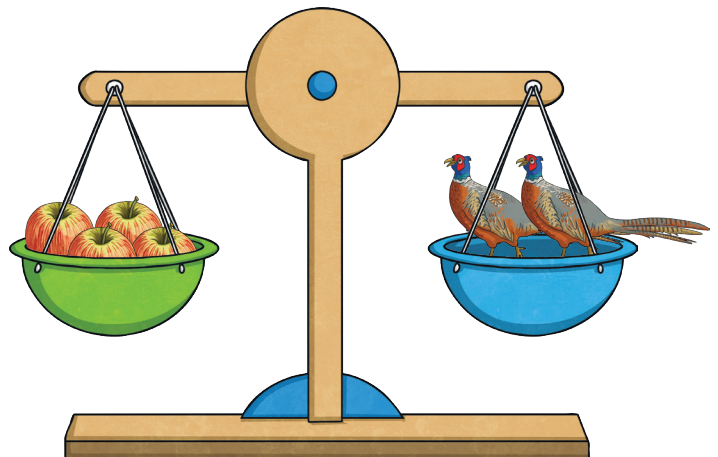
Autumn Measures

Calculate the length of one item.

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

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260 ÷ 5 = 52

🍃 = __52 mm__

240 250 260 270 280

_____

🐭 = _____ cm

81 82 83 84 85 86 87

_____

🎃 = _____ cm

920 930 940 950 960 970 980

_____

🍁 = _____

_____

🌰 = _____

540 550 560 570 580 590 600
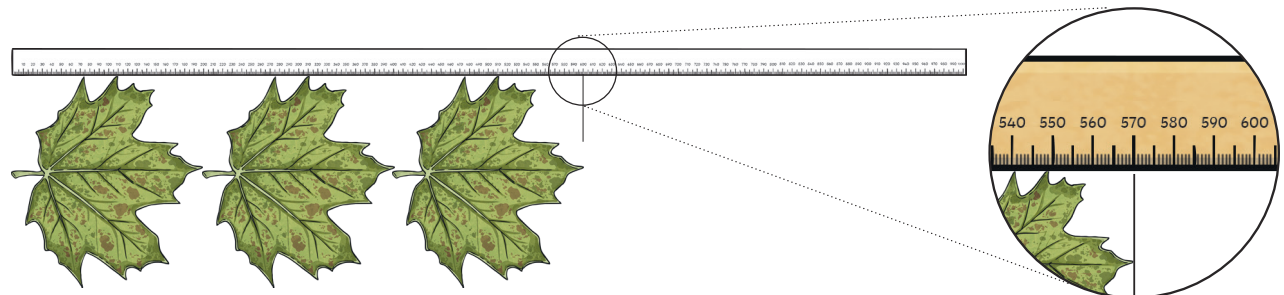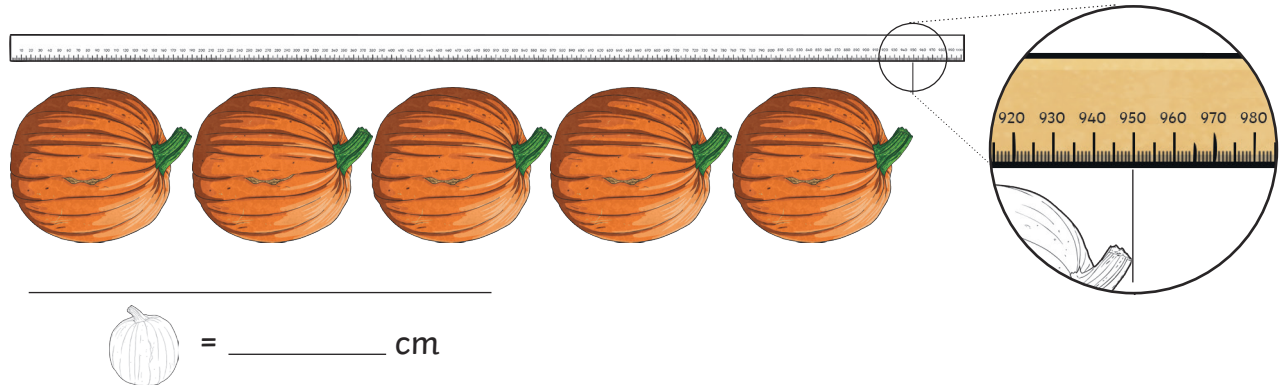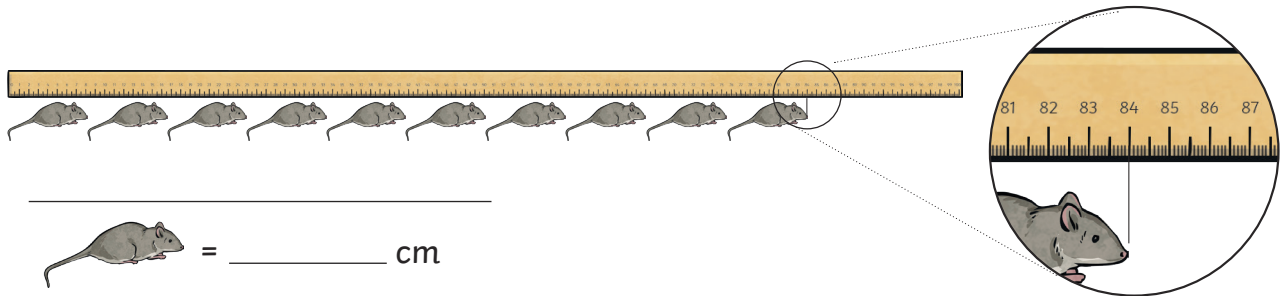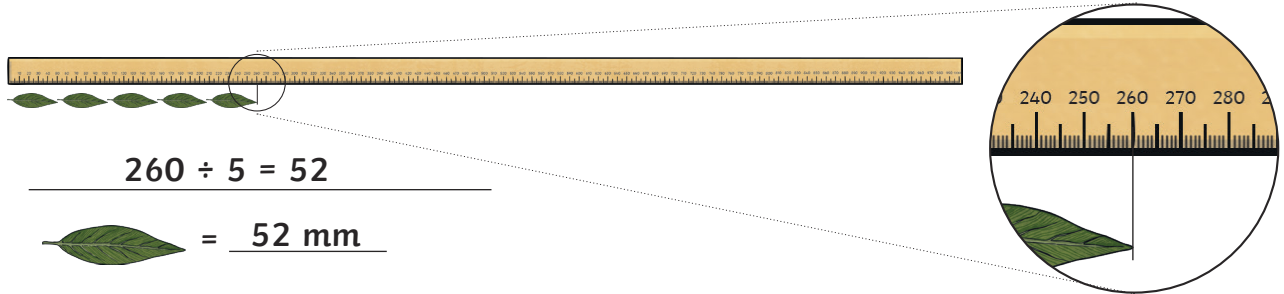
Autumn Number Cross

Use the code to complete the calculations. Solve each one using written methods of multiplication.

2	3	1	8	7	6	9	4	5
🌰	🍂	✨	🎃	🦔	🍎	🔥	🌰	🍁

2. 🦔 🍁 🌰 × 🎃

3. 🌰 🍂 🌰 × 🍁

4. 🎃 🦔 🍎 × 🍂

6. 🍎 🌰 ✨ × 🍁

7. 🌰 🍁 🌰 × ✨ 🌰

8. 🌰 🎃 × 🍎

10. 🍎 🔥 🌰 × 🦔

1. 🍁 🌰 🍂 × 🌰 🌰

2. 🦔 🍁 🍂 × 🔥

3. 🍂 🦔 × 🍁

5. ✨ 🌰 🍎 🍎 × 🦔

6. 🌰 🍁 🎃 × 🦔

7. 🔥 🍎 🌰 × 🌰

8. 🍁 🌰 🔥 × 🌰

9. ✨ 🎃 🍁 × 🌰

Coordinates Mystery Picture

Draw the shapes made by these coordinates.

Line 1	(-5, 9) (2, 17) (6, 13) (-1, 5) (-5, 9)
Line 2	(1, 18) (7, 12) (8, 19) (1, 18)
Line 3	(-2, 6) (-4, 4) (-6, 6) (-4, 8)
Line 4	(-5, 5) (-10, 0)
Line 5	(-6, 6) (-8, 6) (-9, 7) (-7, 9) (-7, 13)
Line 6	(-7, 13) (-9, 12) (-8, 14) (-9, 16) (-7, 15) (-6, 17) (-6, 15) (-4, 14) (-6, 14) (-5, 12) (-7, 13)
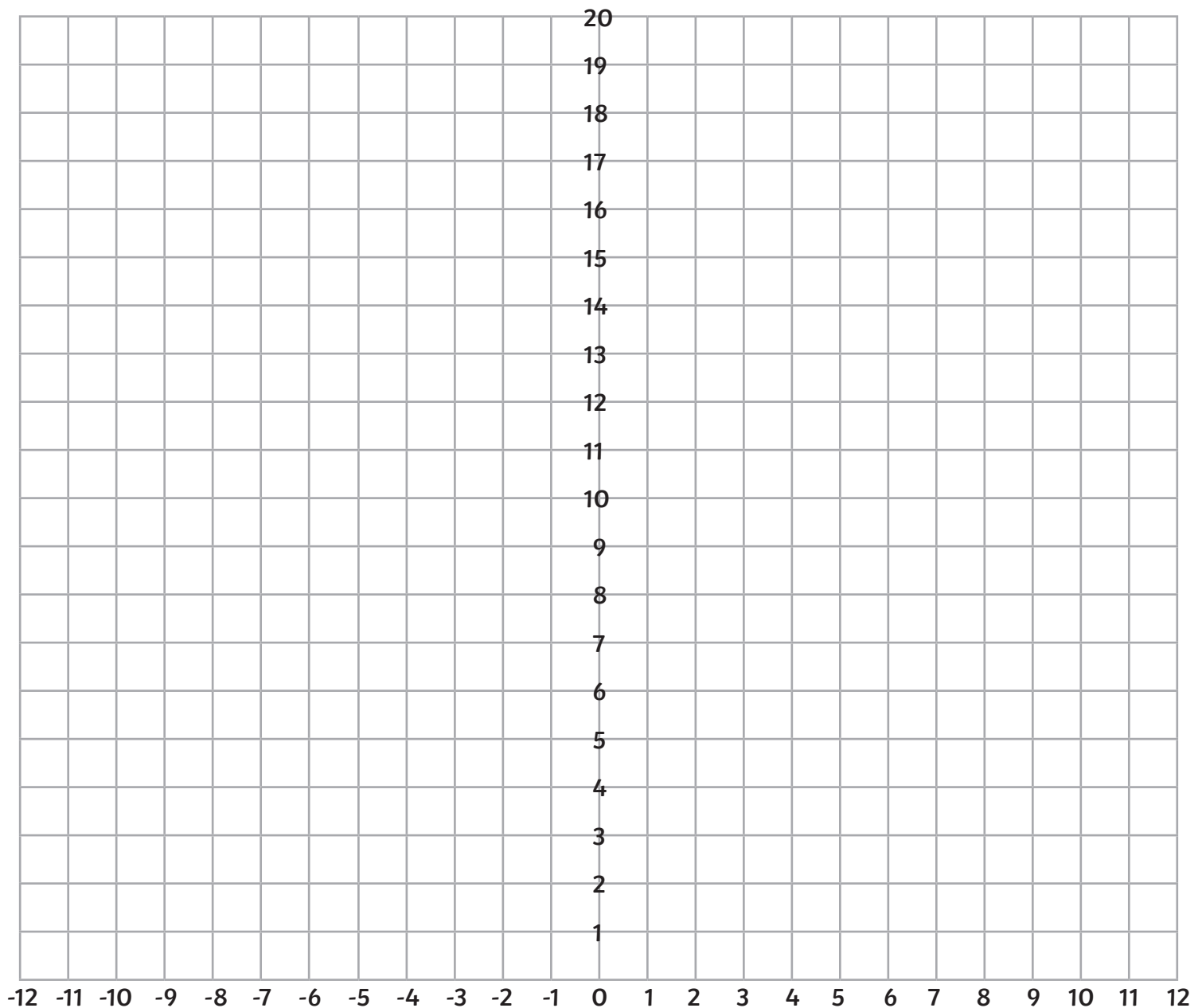
Autumn Number Puzzles

I collect some conkers on my walk home from school.
I multiply the number of conkers by 3.
I then subtract 17,
multiply by 5,
and divide by 7.
I end with the number 185.

How many conkers did I collect? _____

_____

Eva and Melody pick some blackberries to make some blackberry pies.
They share the berries equally between them.
Eva eats 34 of her berries on the walk home.
She divides the berries equally between three pie dishes.
Each dish now contains 122 berries.

How many berries did Melody and Eva pick? _____

_____

Eddie watched a firework display.
$\frac{2}{6}$ of the fireworks were Catherine wheels.
$\frac{1}{2}$ of the fireworks were fountains.
The rest were Roman candles.
There were 12 Roman candles.

How many fireworks were there in total? _____

_____

Converting Measures Board Game

Instructions

Each player must choose a place to start and place their counter on it.

The first player rolls the dice and moves their piece clockwise.

They must answer the question in that square, find the answer on the correct acorn and cover it over.

The next player will take their turn.

Play continues until all of the acorns are covered.

If a player lands on an answer that has already been covered, they must miss a go.

The winner is the player who has covered the most acorns.

How many metres are in 2km?	How many grams are in half a kilogram?	How many seconds are in 10 minutes?	How many millimetres are in 5cm?	How many hours are in 10 days?
How many pence are in £12?	600 750 1800 12			How many metres are in 4.3km?
How many minutes are in 3 hours?	2000 1200 25 180			How many millilitres are in $\frac{3}{4}$ of a litre?
How many millilitres are in 0.005 litres?	500 240 250 50			How many hours are in half a day?
	4300 500 5 120			
How many millimetres are in 25cm?	How many pence are in £5?	How many months are in 10 years?	How many millilitres are in 1.8 litres?	How many centimetres are in $\frac{1}{4}$ of a metre?

Autumn Board Game

You will need:

- counters
- a dice
- pencil

Instructions

- Each player starts the game with 1000 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:
1000	1000	1000	1000

Autumn Board Game

START	+ 702	+ 139

- 284	+ 366	+ 481	+105

- 477

+ 112

FINISH				

+ 501	- 719	+ 469	- 392

+ 344

+ 256

- 326	+ 294	- 235	+192	- 533

+ 158				+ 282

- 430	+ 146	+ 298	- 515	- 856	+ 128