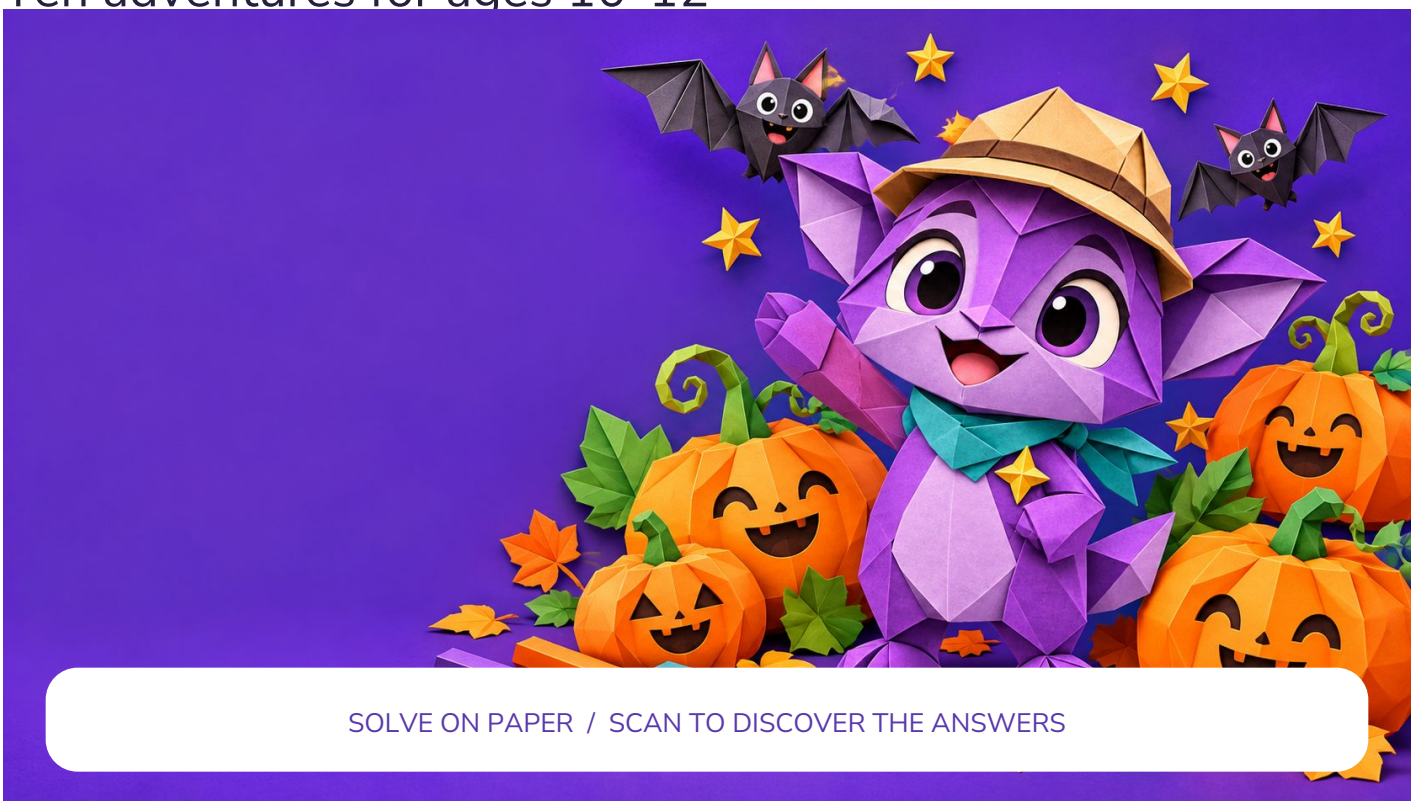
A little paper magic.

Ten adventures for ages 10-12



SOLVE ON PAPER / SCAN TO DISCOVER THE ANSWERS

01 The lantern word hunt

02 The pumpkin-patch path

03 Treats, tokens & totals

04 A secret lantern message

05 The lantern sudoku

06 Who wears which badge?

07 The magic mirror tiles

08 Program the pumpkin rover

09 Plan the perfect party

10 The Halloween clue club

Explorer name: _____

1. Print and solve the ten activity pages.
2. Mark each checkpoint on the final scan sheet.
3. Visit printablia.com/scan, photograph the sheet and reveal the answers.

No printed answer key. No signup needed to scan. Letter or A4: Fit.

01 VOCABULARY & FOCUS

The lantern word hunt

Find the words across, down, diagonally or backward.

D	X	E	I	C	N	Y	T	R	W	J	P	L
C	S	K	N	P	E	E	E	S	B	Y	U	G
C	M	T	F	C	K	K	D	H	P	T	M	T
O	O	L	O	Z	P	S	C	L	D	R	P	F
S	U	K	R	T	W	A	G	N	L	A	K	D
T	A	M	H	A	O	M	S	Q	G	P	I	A
U	G	X	X	B	D	N	H	K	T	L	N	N
M	S	A	D	L	W	L	A	N	T	E	R	N
E	U	U	E	T	O	W	D	C	A	N	D	Y
M	G	T	W	S	B	Q	O	N	O	O	M	N
A	J	U	C	Q	R	G	W	B	Q	O	F	Q
Z	H	M	D	O	R	M	X	S	S	Z	I	R
J	J	N	T	P	F	X	L	N	G	A	N	S

BAT / MOON / MASK / CANDY / PUMPKIN / PARTY / LANTERN / COSTUME / AUTUMN / SHADOW

CHECKPOINT 01 / Mark your answer on the scan sheet

Which word in the list has seven letters?

A CANDY

B MOON

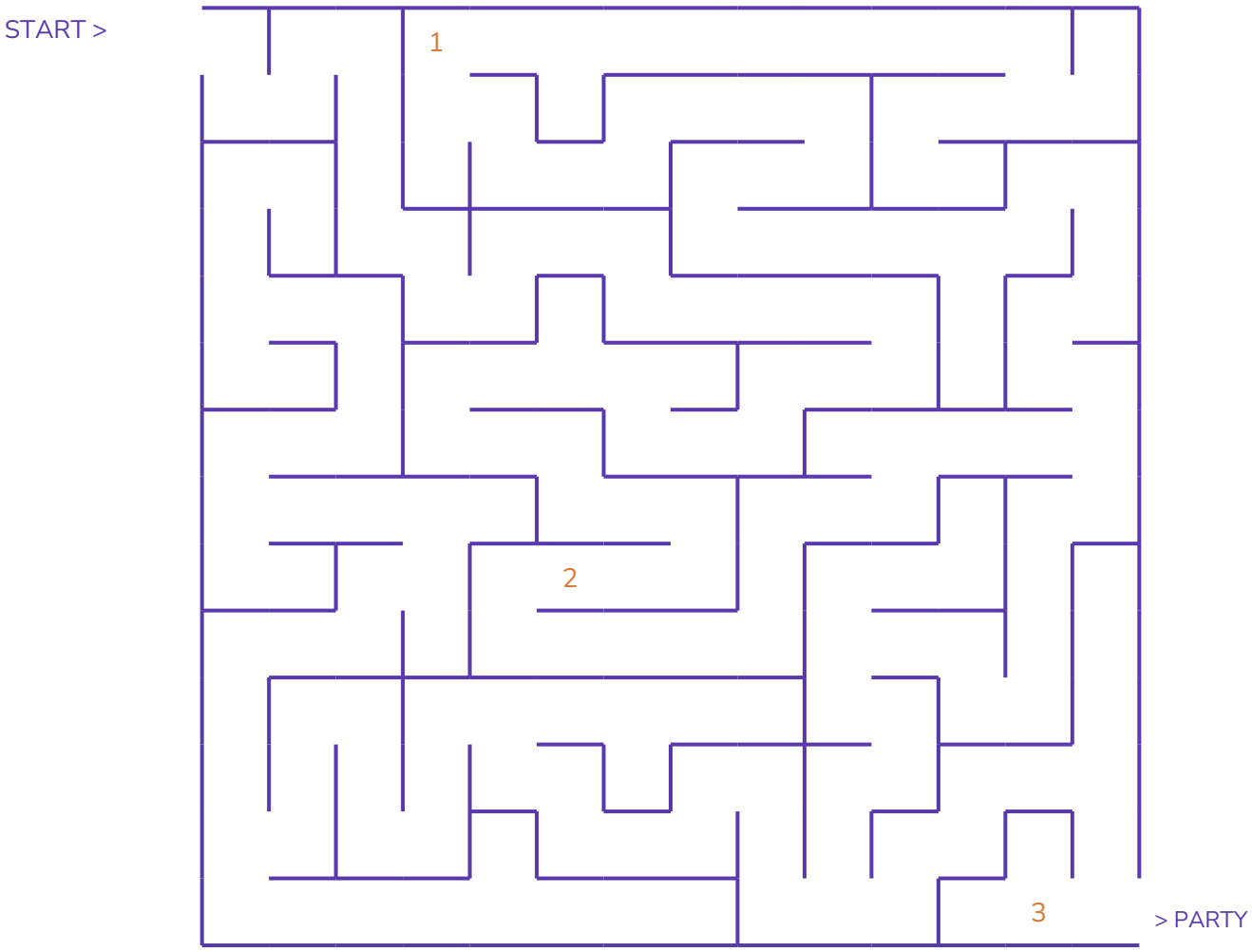
C PUMPKIN

D MASK

02 PLANNING & SPATIAL THINKING

The pumpkin-patch path

Trace the path from START to PARTY without crossing any walls. Notice the numbered stops.



CHECKPOINT 02 / Mark your answer on the scan sheet

Which numbered stop lies on the path to PARTY?

(A) 1
(B) 2
(C) 3
(D) None

03 FRACTIONS, MONEY & MEASURE

Treats, tokens & totals

Solve all four puzzles. Draw, count or show your working in the space below.

01 3/4 of 48 lanterns

Show your thinking: _____ = ____

02 25% of 80 treats

Show your thinking: _____ = ____

03 Perimeter of an 18 m by 7 m garden

Show your thinking: _____ = ____

04 5 masks at $12.50 each

Show your thinking: _____ = ____

CHECKPOINT 03 / Mark your answer on the scan sheet

What is the answer to puzzle 1?

(A) 35 (B) 38

(C) 37 (D) 36

04 CODES & CAREFUL REASONING

A secret lantern message

Use the decoder to reveal the message. This code starts at A = 4, not A = 1.

YOUR DECODER

A=4	B=5	C=6	D=7	E=8	F=9	G=10	H=11	I=12	J=13	K=14	L=15	M=16
N=17	O=18	P=19	Q=20	R=21	S=22	T=23	U=24	V=25	W=26	X=27	Y=28	Z=29

15 - 12 - 10 - 11 - 23

_ _ _ _ _

23 - 11 - 8

_ _ _

15 - 4 - 17 - 23 - 8 - 21 - 17

_ _ _ _ _ _ _

CHECKPOINT 04 / Mark your answer on the scan sheet

What is the FIRST word of the secret message?

(A) MOON
(B) LIGHT
(C) FOLLOW
(D) PARTY

05 LOGIC & PERSISTENCE

The lantern sudoku

Use 1 to 6 once in every row, column and outlined 2 by 3 box. Fill the blanks.

			4		
4	5	6		2	3
2	3	4	5	6	
	6	1		?	4
			6	1	
					5

CHECKPOINT 05 / Mark your answer on the scan sheet

Which number belongs in the gold square?

(A) 4
(B) 1
(C) 3
(D) 2

06 DEDUCTION & ELIMINATION

Who wears which badge?

Use the clues. Put a tick for a match and a cross for a badge a friend cannot have.

1. Each friend has a different badge.
2. Ava has neither Moon nor Bat.
3. Ben has Moon or Owl.
4. Cleo has the Bat badge.
5. Drew does not have Star or Owl.

	Moon	Star	Bat	Owl
Ava				
Ben				
Cleo				

CHECKPOINT 06 / Mark your answer on the scan sheet

Which badge does Ben wear?

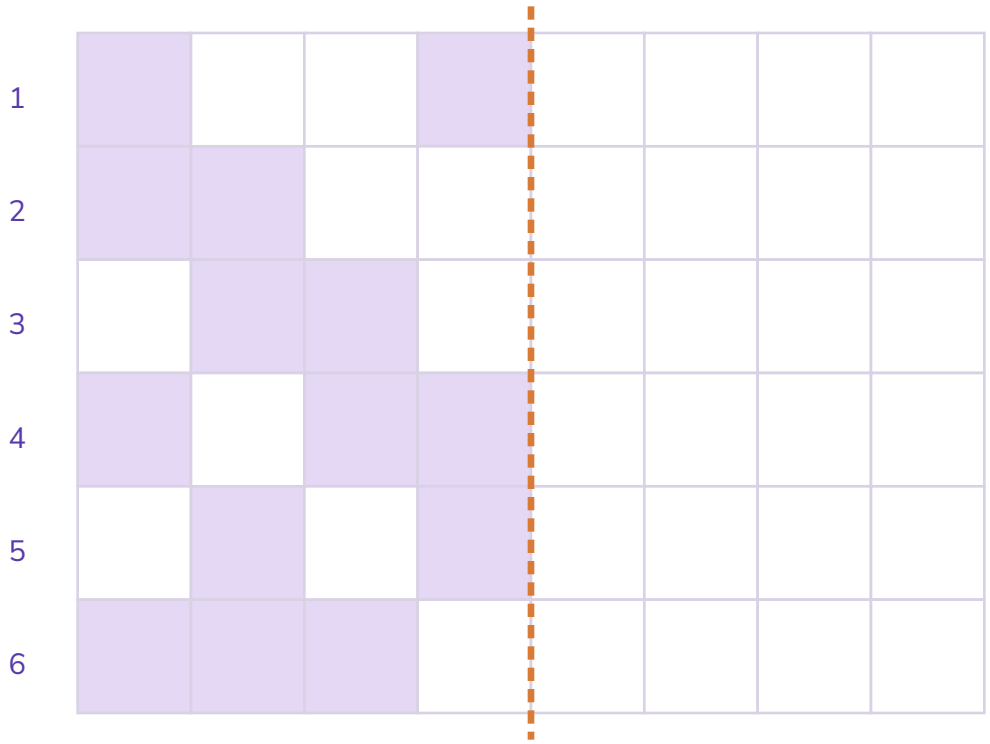
(A) Moon (B) Star

(C) Bat (D) Owl

07 SYMMETRY & DRAWING

The magic mirror tiles

Color the empty RIGHT half to mirror the LEFT half. Match squares at the same distance from the orange line.



Left side Your mirror side

CHECKPOINT 07 / Mark your answer on the scan sheet

When finished, how many colored squares are in row 4?

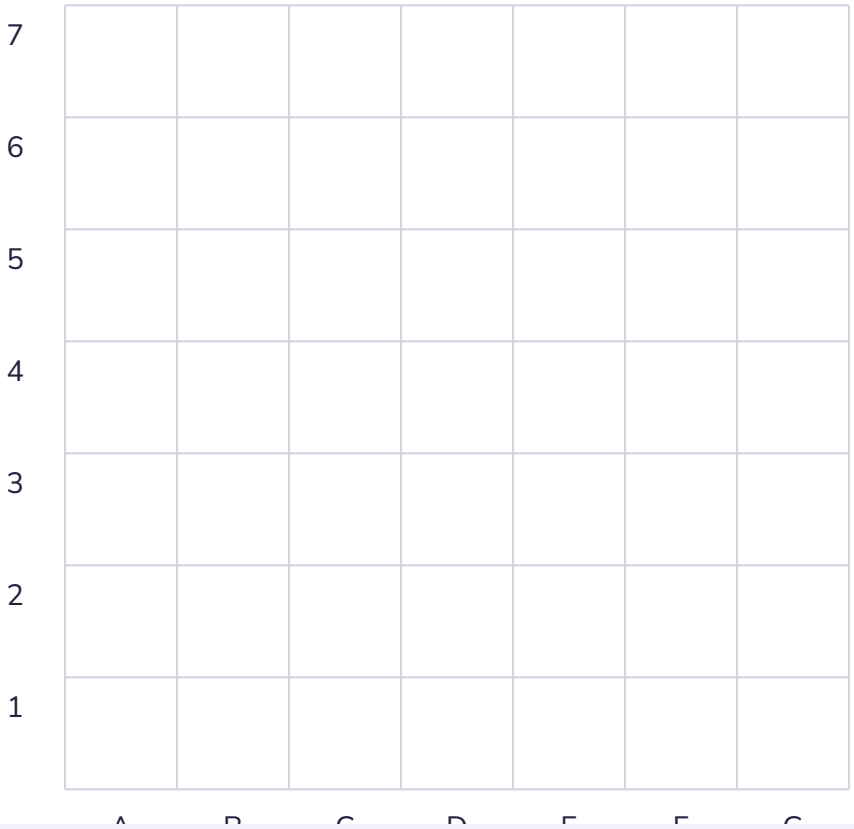
(A) 4
(B) 8
(C) 6
(D) 7

08 COORDINATES & CODING

Program the pumpkin rover

Draw the route one square at a time. Columns are letters; rows are numbers. Up means a larger row number.

Start at B2. Repeat [right 2, up 1] twice. Then move left 3 and up 1.



CHECKPOINT 08 / Mark your answer on the scan sheet

Where does the rover finish?

(A) B4
(B) D3
(C) C4
(D) C5

09 BUDGETING & OPTIMIZATION

Plan the perfect party

Work out the essential costs first. You cannot spend more than your budget.

PARTY SHOP

Lantern kit: $3.50

Mask kit: $2.25

Sticker sheet: $1.20

Your budget is $20. Buy 2 lantern kits and 4 mask kits. Spend the change on as many sticker sheets as possible.

CHECKPOINT 09 / Mark your answer on the scan sheet

How many sticker sheets can you buy?

A) 2 sheets

B) 3 sheets

C) 4 sheets

D) 5 sheets

10 READING & DEDUCTION

The Halloween clue club

Read the clues slowly. Underline the clue that helps you answer. A grown-up can read aloud.

Four lanterns switched on at different times.

The blue lantern switched on before the green lantern.

The gold lantern switched on after green but before red.

Exactly one lantern switched on between blue and gold.

No two lanterns switched on at the same time.

Write the four colors in order, from first to last.

CHECKPOINT 10 / Mark your answer on the scan sheet

Which lantern switched on THIRD?

A Blue

B Green

C Gold

D Red

PRINTABLIA

HALLOWEEN ANSWER SCAN

AGES 10-12 / H6F765AC



Scan to unlock the answers!

01	○ A	○ B	○ C	○ D
02	○ A	○ B	○ C	○ D
03	○ A	○ B	○ C	○ D
04	○ A	○ B	○ C	○ D
05	○ A	○ B	○ C	○ D
06	○ A	○ B	○ C	○ D
07	○ A	○ B	○ C	○ D
08	○ A	○ B	○ C	○ D
09	○ A	○ B	○ C	○ D
10	○ A	○ B	○ C	○ D

1. Fill ONE circle per checkpoint with a dark pencil.
2. Photograph this whole sheet at printablia.com/scan.
3. Review the marks, confirm, then reveal the answers.

Keep the QR and all four black squares visible. No account needed.