Case File

Name _____

Math Mystery Case · A new case for Detective Kit

The Case of the Missing Map



The case

It is Field Day in Maple Hollow, and the treasure hunt is about to start. The treasure map was pinned to the clipboard at the starting line, but now the clipboard is empty! Five animals were near the starting line. Detective Kit found two clues, each locked in a secret code. Solve the math to unlock each clue, then cross out the animals it rules out. Only one animal will be left.

How to solve it

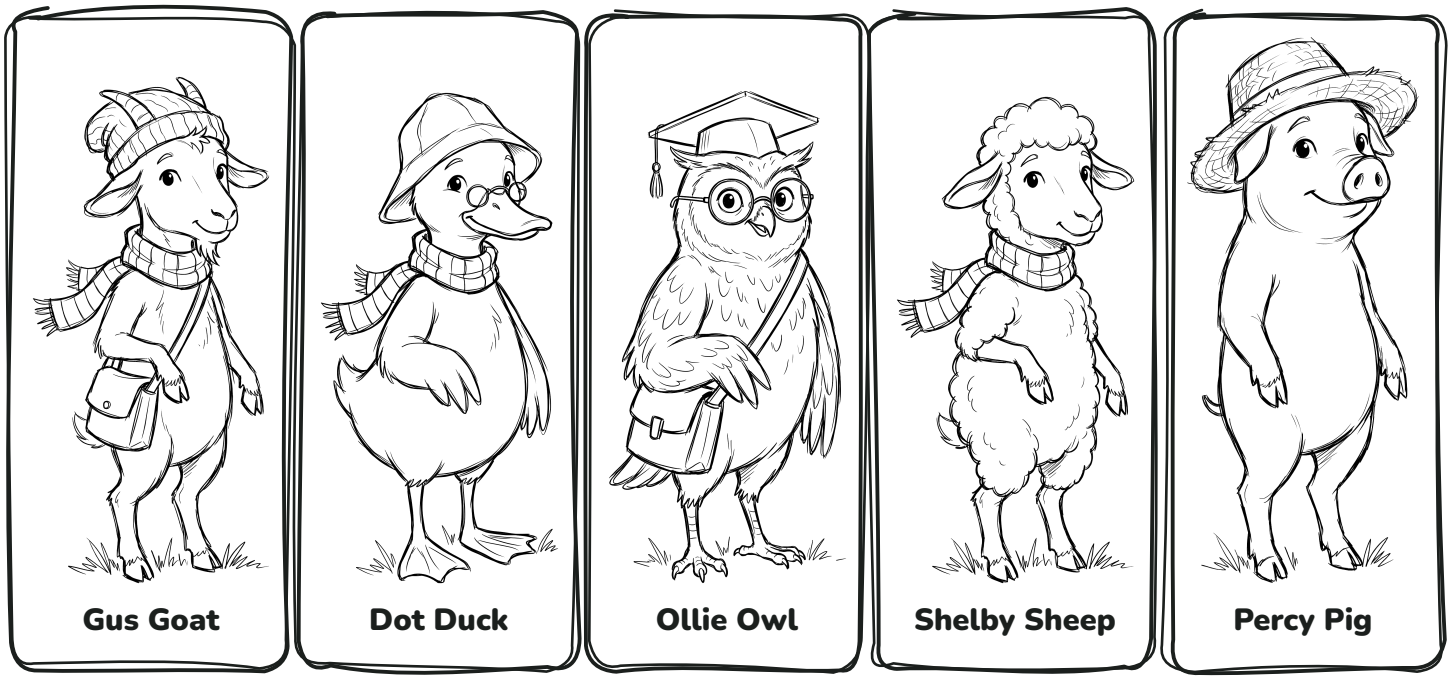
1. Solve the math on each **Clue** page to unlock a clue.
2. Cross out every animal the clue rules out on **The Suspects** page.
3. After two clues, only one animal is left. Name it in your Detective Notes!

The Suspects

Name _____

Math Mystery Case · The Case of the Missing Map

Five animals were near the starting line. Look closely at what each one is wearing and carrying. When a clue rules an animal out, cross it out with a big X.



Gus Goat | **Dot Duck** | **Ollie Owl** | **Shelby Sheep** | **Percy Pig**

Detective Notes

Clue 1: _____ Crossed out: _____

Still in the lineup: _____

Clue 2: _____ Crossed out: _____

Still in the lineup: _____

Who took the map? _____

How do you know? _____

_____

Clue 1

Name _____

Math Mystery Case · The Case of the Missing Map · Multiply by 2, 3, 4 and 5

Code box

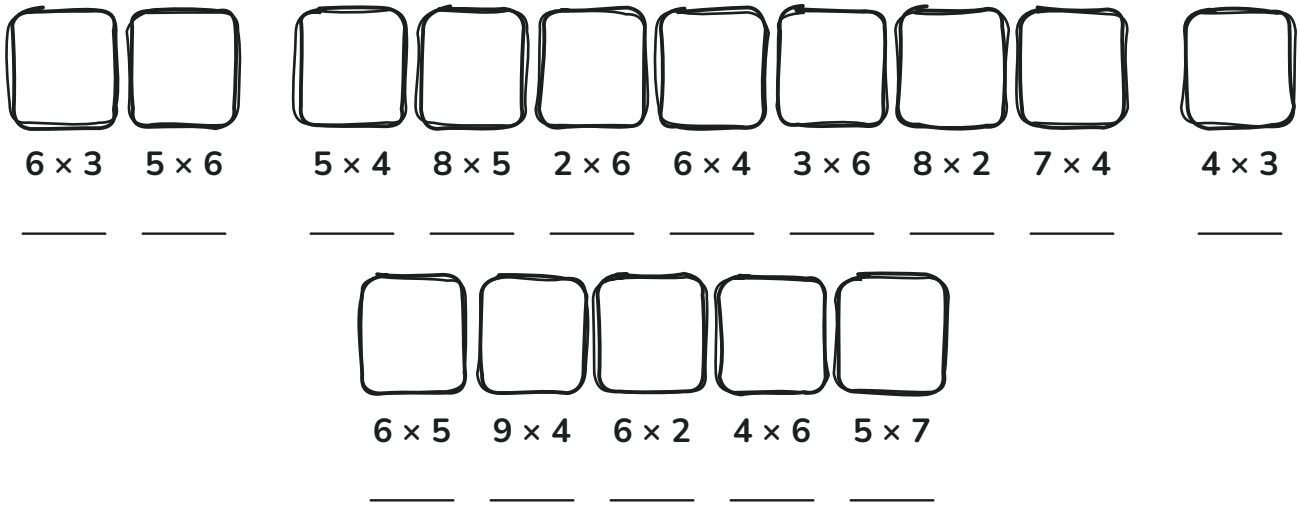
6	12	15	16	18	20	24
T	A	L	N	I	W	R

27	28	30	35	36	40	50
D	G	S	F	C	E	M

Unlock the clue

Solve each problem and write the answer on its line. Find that number in the code box and write its letter in the box above.

The animal who took the map...



Work space

Use the clue

Read the clue you unlocked. On **The Suspects** page, cross out every animal that does not match it. Then write it in your **Detective Notes**.

Clue 1 of 2

Clue 2

Name _____

Math Mystery Case · The Case of the Missing Map · Multiply by 6, 7, 8 and 9

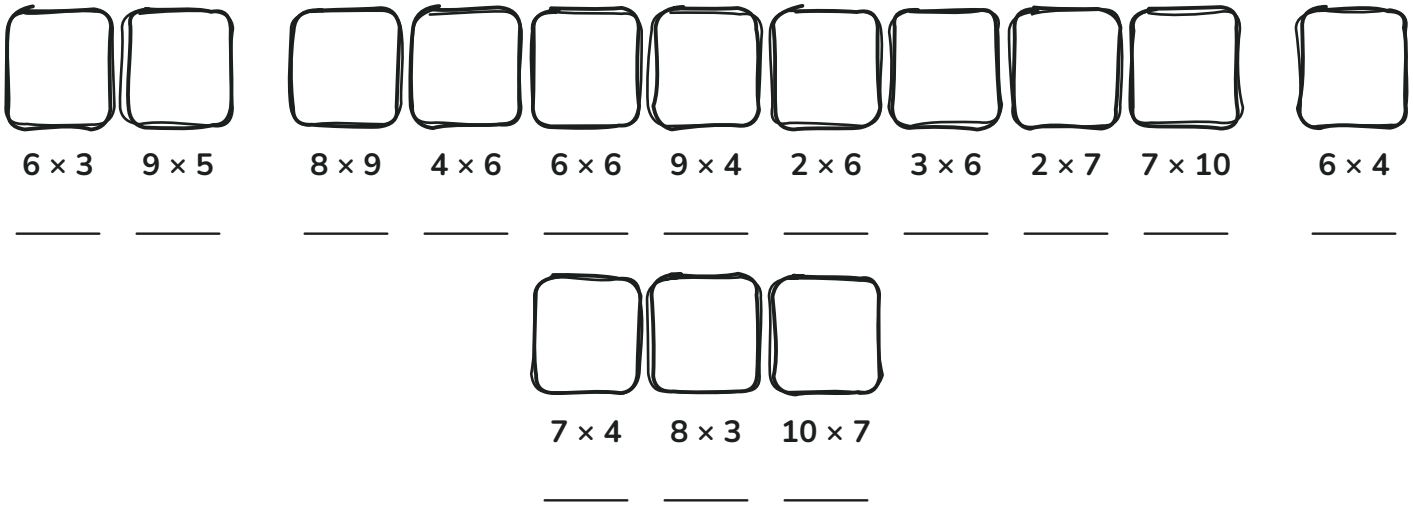
Code box

12 Y	14 N	16 U	18 I	24 A	28 B	36 R
40 H	42 E	45 S	54 T	70 G	72 C	90 P

Unlock the clue

Solve each problem and write the answer on its line. Find that number in the code box and write its letter in the box above.

The animal who took the map...



6 × 3 _____ 9 × 5 _____ 8 × 9 _____ 4 × 6 _____ 6 × 6 _____ 9 × 4 _____ 2 × 6 _____ 3 × 6 _____ 2 × 7 _____ 7 × 10 _____ 6 × 4 _____

7 × 4 _____ 8 × 3 _____ 10 × 7 _____

Work space

Use the clue

Read the clue you unlocked. On **The Suspects** page, cross out every animal that does not match it. Then write it in your **Detective Notes**.

Clue 2 of 2

Mystery Solved!

Name _____

Math Mystery Case · The Case of the Missing Map



What happened

It was Gus Goat!

He took the map to the meadow to draw one more X on it: a surprise treasure spot with a jar of honey cakes for everyone. He meant to bring it straight back, but he got busy hiding the jar. Gus said sorry, and the treasure hunt had one extra prize.

Case Closed

This certifies that

_____

cracked The Case of the Missing Map

and is a true Math Detective.

_____ _____

Detective Kit, Chief Detective | Date

Teacher Notes

Math Mystery Case · The Case of the Missing Map

Grade 3 · Multiplication facts

Students solve multiplication facts to unlock two clues, then use each clue to rule out suspects in a drawn lineup until one animal is left. Every answer is checked: one suspect survives, and every clue is needed.



How to run it

1. Give each student (or pair) the **Case File**, **The Suspects** page and the two **Clue** pages. Keep the **Mystery Solved** page back.
2. Read the case file together. Students solve each clue page, write the answer under each problem, then find it in the code box to unlock the letters.
3. After each clue, they cross out the animals it rules out on **The Suspects** page and log it in their Detective Notes.
4. When a student names the culprit, check it against the key and hand over the **Mystery Solved** page: the reveal and a Case Closed certificate to fill in.

Skills

- **Clue 1:** Multiply by 2, 3, 4 and 5
- **Clue 2:** Multiply by 6, 7, 8 and 9
- **The Suspects:** reading a clue and checking every drawing
- **Logic:** keep the animals a clue fits, cross out the rest

Tips

- Fits one class period, or one clue a day.
- The work space is for arrays or skip counting.
- Early finishers can color the suspects.

What's inside

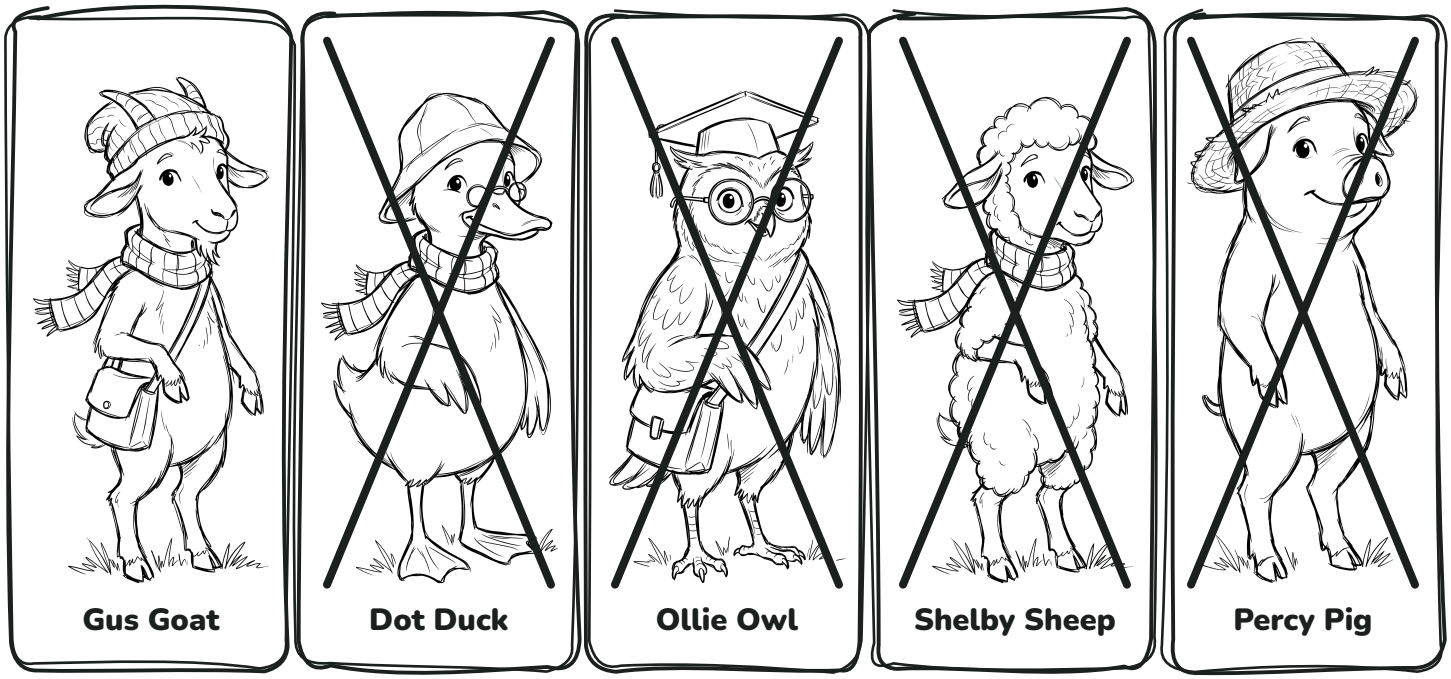
Teacher Notes · Case File · The Suspects (with Detective Notes) · Clues 1 to 2 · Mystery Solved (reveal and certificate) · Answer keys for The Suspects and every clue, at the back.

The Suspects

Answer Key

Math Mystery Case · The Case of the Missing Map

Five animals were near the starting line. Look closely at what each one is wearing and carrying. When a clue rules an animal out, cross it out with a big X.



Detective Notes

Clue 1: IS WEARING A SCARF Crossed out: Ollie, Percy

Still in the lineup: Gus, Dot, Shelby

Clue 2: IS CARRYING A BAG Crossed out: Dot, Shelby

Still in the lineup: Gus

Who took the map? Gus Goat

How do you know? It fits every clue: is wearing a scarf, is carrying a bag.

Clue 1

Answer Key

Math Mystery Case · The Case of the Missing Map · Multiply by 2, 3, 4 and 5

Code box

6	12	15	16	18	20	24
T	A	L	N	I	W	R
27	**28**	**30**	**35**	**36**	**40**	**50**
D	G	S	F	C	E	M

Unlock the clue

Solve each problem and write the answer on its line. Find that number in the code box and write its letter in the box above.

The animal who took the map...

I	S	W	E	A	R	I	N	G	A
6 × 3	5 × 6	5 × 4	8 × 5	2 × 6	6 × 4	3 × 6	8 × 2	7 × 4	4 × 3
18	30	20	40	12	24	18	16	28	12

S	C	A	R	F
6 × 5	9 × 4	6 × 2	4 × 6	5 × 7
30	36	12	24	35

Work space

Use the clue

Read the clue you unlocked. On **The Suspects** page, cross out every animal that does not match it. Then write it in your **Detective Notes**.

Clue 1 of 2

●○

Rules out: Ollie, Percy

Clue 2

Answer Key

Math Mystery Case · The Case of the Missing Map · Multiply by 6, 7, 8 and 9

Code box

12	14	16	18	24	28	36
Y	N	U	I	A	B	R

40	42	45	54	70	72	90
H	E	S	T	G	C	P

Unlock the clue

Solve each problem and write the answer on its line. Find that number in the code box and write its letter in the box above.

The animal who took the map...

I	S	C	A	R	R	Y	I	N	G	A
6 × 3	9 × 5	8 × 9	4 × 6	6 × 6	9 × 4	2 × 6	3 × 6	2 × 7	7 × 10	6 × 4
18	45	72	24	36	36	12	18	14	70	24

B	A	G
7 × 4	8 × 3	10 × 7
28	24	70

Work space

Use the clue

Read the clue you unlocked. On **The Suspects** page, cross out every animal that does not match it. Then write it in your **Detective Notes**.

Clue 2 of 2

Rules out: Dot, Shelby

Already out: Percy