The Case of the Lost Jungle Compass

Grade 5 math · Addition, Fractions of a number, Order of operations, Multiplication, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone snatched the ancient golden compass from the camp tent! Figure out who took it before the supply ship leaves.

1. Solve each math problem. The answer is a number, and the letter beside it is what that number stands for.
2. In the clue boxes, write that letter in every box showing the same number, then read the secret clue.
3. Use each clue to cross suspects off the list. The one suspect left at the end is the culprit!

My answer: the Sun Idol Thief is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

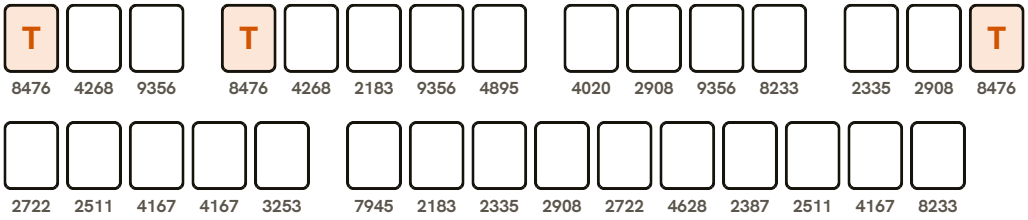
NAME	MAIN TOOL	SIDE GEAR	WATCH WRIST	BANDANA COLOR	JUNGLE TRAP
Guide Leo	Machete	Compass	Left Wrist	Gold Bandana	Net Trap
Hiker Hank	Grappling Hook	Flashlight	Right Wrist	Red Bandana	Mud Pit
Tracker Tom	Rope Ladder	Binoculars	Left Wrist	Gold Bandana	Mud Pit
Ranger Rick	Machete	Canteen	Left Wrist	Gold Bandana	Mud Pit
Outdoorsy Ollie	Smoke Bomb	Canteen	Left Wrist	Gold Bandana	Mud Pit
Explorer Eva	Signal Mirror	Compass	Right Wrist	Red Bandana	Mud Pit
Pathfinder Penny	Smoke Bomb	Map Roll	Left Wrist	Gold Bandana	Mud Pit
Tracker Tess	Rope Ladder	Compass	Right Wrist	Red Bandana	Mud Pit
Navigator Nora	Rope Ladder	Canteen	Left Wrist	Blue Bandana	Mud Pit
Cartographer Chloe	Rope Ladder	Canteen	Left Wrist	Gold Bandana	Mud Pit
Surveyor Sue	Signal Mirror	Compass	Right Wrist	Gold Bandana	Mud Pit
Rover Ruby	Machete	Map Roll	Left Wrist	Blue Bandana	Snare Trap
Scout Ben	Grappling Hook	Canteen	Right Wrist	Gold Bandana	Snare Trap
Trekker Tim	Smoke Bomb	Compass	Left Wrist	Gold Bandana	Net Trap
Mapper Max	Smoke Bomb	Canteen	Left Wrist	Gold Bandana	Snare Trap
Pioneer Pete	Machete	Compass	Left Wrist	Blue Bandana	Net Trap
Scout Sam	Signal Mirror	Canteen	Right Wrist	Red Bandana	Mud Pit
Guide Gabe	Signal Mirror	Compass	Left Wrist	Blue Bandana	Mud Pit
Adventurer Amy	Grappling Hook	Binoculars	Left Wrist	Blue Bandana	Mud Pit
Explorer Eli	Machete	Canteen	Right Wrist	Blue Bandana	Mud Pit
Ranger Rita	Signal Mirror	Binoculars	Right Wrist	Gold Bandana	Mud Pit

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CLUE 1 Addition

To find the first clues, you count up the supplies left behind at camp.

Solve each problem, then write its letter in every clue box that shows the same number.



3942 + 4534 = ☐ → T

935 + 1787 = ☐ → C

858 + 1325 = ☐ → I

2292 + 1976 = ☐ → H

2735 + 1432 = ☐ → R

1718 + 1535 = ☐ → Y

3276 + 4669 = ☐ → B

2653 + 1367 = ☐ → D

854 + 1481 = ☐ → N

3027 + 1868 = ☐ → F

1568 + 1340 = ☐ → O

4454 + 4902 = ☐ → E

2606 + 2022 = ☐ → U

5459 + 2774 = ☐ → S

1441 + 1070 = ☐ → A

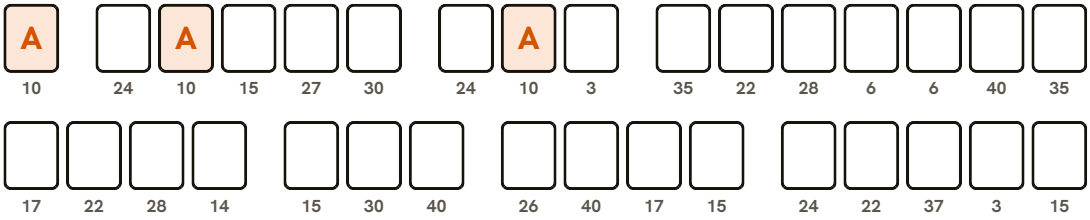
901 + 1486 = ☐ → L

Scratch space:

CLUE 2 Fractions of a number

You measure out fraction portions of the trail mix to feed the scout squad.

Solve each problem, then write its letter in every clue box that shows the same number.



5/6 of 12 = ☐ → A

2/4 of 30 = ☐ → T

2/10 of 200 = ☐ → E

5/10 of 54 = ☐ → C

2/6 of 42 = ☐ → M

1/5 of 85 = ☐ → F

2/10 of 110 = ☐ → R

2/8 of 24 = ☐ → P

5/10 of 70 = ☐ → D

1/2 of 74 = ☐ → I

3/6 of 56 = ☐ → O

4/10 of 65 = ☐ → L

2/4 of 60 = ☐ → H

1/2 of 48 = ☐ → W

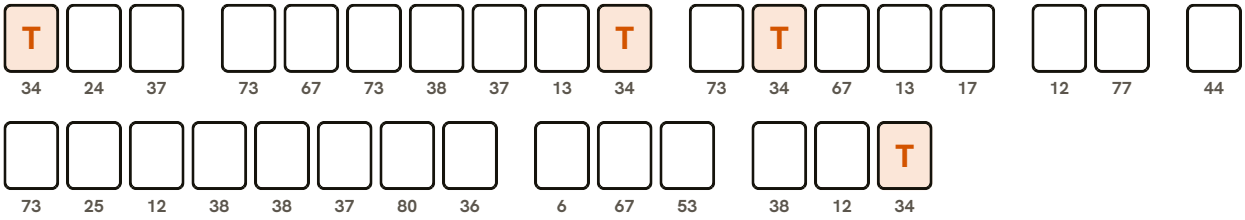
2/4 of 6 = ☐ → S

Scratch space:

CLUE 3 Order of operations

To unlock the jungle gate, you follow the strict step by step code rule.

Solve each problem, then write its letter in every clue box that shows the same number.



3 × 12 - 2 = ☐ → T

12 × 3 - 19 = ☐ → K

6 + 3 × 2 = ☐ → I

9 × 10 - 13 = ☐ → N

52 + 3 × 5 = ☐ → U

27 + 5 × 2 = ☐ → E

8 × 4 - 7 = ☐ → L

6 + 6 × 3 = ☐ → H

8 + 4 × 7 = ☐ → Y

8 × 10 - 7 = ☐ → S

8 + 9 × 4 = ☐ → A

8 × 3 - 18 = ☐ → M

25 + 4 × 7 = ☐ → D

12 × 9 - 28 = ☐ → R

10 × 5 - 12 = ☐ → P

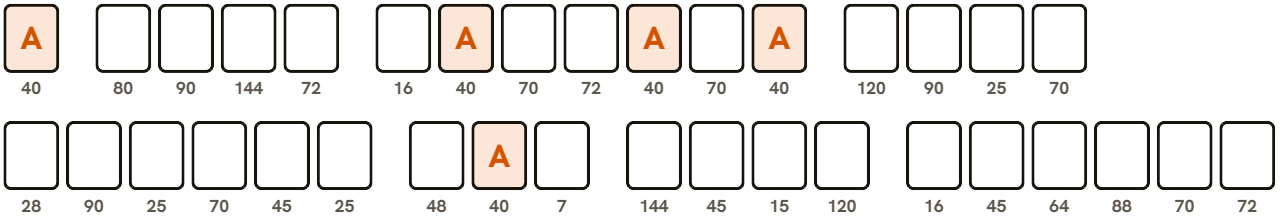
5 + 4 × 2 = ☐ → C

Scratch space:

CLUE 4 Multiplication facts (1-12)

> You count the supply crates stacked in equal rows along the river dock.

Solve each problem, then write its letter in every clue box that shows the same number.



8 × 5 = ☐ → A	8 × 2 = ☐ → B	8 × 11 = ☐ → I	7 × 1 = ☐ → S
10 × 9 = ☐ → O	10 × 12 = ☐ → T	8 × 8 = ☐ → H	
5 × 3 = ☐ → F	7 × 10 = ☐ → N	5 × 5 = ☐ → R	9 × 5 = ☐ → E
8 × 9 = ☐ → D	12 × 12 = ☐ → L	8 × 10 = ☐ → G	
4 × 7 = ☐ → C	4 × 12 = ☐ → W		

Scratch space:

CLUE 5 Division facts (1-12) - the last clue

> You split the remaining gear evenly among the search team members.

First solve each problem. Then find each answer in the numbered list below and cross that sentence out. One sentence will be left - that is exactly what the villain did!

Step 1 - solve these:

30 ÷ 10 = ☐	22 ÷ 11 = ☐	40 ÷ 5 = ☐	1 ÷ 1 = ☐	55 ÷ 11 = ☐
60 ÷ 6 = ☐	144 ÷ 12 = ☐	28 ÷ 4 = ☐	30 ÷ 5 = ☐	28 ÷ 7 = ☐
99 ÷ 11 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain cleared vines with a machete, then lost the binoculars.
2. The villain climbed a rope ladder, then spilled the canteen.
3. The villain dropped a smoke bomb, then unrolled the map roll.
4. The villain swung with a grappling hook, then checked the compass.
5. The villain dropped a smoke bomb, then shined the flashlight.
6. The villain swung with a grappling hook, then spilled the canteen.
7. The villain flashed a signal mirror, then unrolled the map roll.
8. The villain cleared vines with a machete, then spilled the canteen.
9. The villain swung with a grappling hook, then unrolled the map roll.
10. The villain cleared vines with a machete, then checked the compass.
11. The villain dropped a smoke bomb, then spilled the canteen.
12. The villain flashed a signal mirror, then checked the compass.

TEACHER / PARENT

Answer Key

The Case of the Lost Jungle Compass

Culprit: Outdoorsy Ollie

Smoke Bomb · Canteen · Left Wrist · Gold Bandana · Mud Pit

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT CARRY BINOCULARS"

3942 + 4534 = 8476 (T) · 935 + 1787 = 2722 (C) · 858 + 1325 = 2183 (I) · 2292 + 1976 = 4268 (H) · 2735 + 1432 = 4167 (R) · 1718 + 1535 = 3253 (Y) · 3276 + 4669 = 7945 (B) · 2653 + 1367 = 4020 (D) · 854 + 1481 = 2335 (N) · 3027 + 1868 = 4895 (F) · 1568 + 1340 = 2908 (O) · 4454 + 4902 = 9356 (E) · 2606 + 2022 = 4628 (U) · 5459 + 2774 = 8233 (S) · 1441 + 1070 = 2511 (A) · 901 + 1486 = 2387 (L)

Clue 2 (Fractions of a number): "A WATCH WAS DROPPED FROM THE LEFT WRIST"

5/6 of 12 = 10 (A) · 2/4 of 30 = 15 (T) · 2/10 of 200 = 40 (E) · 5/10 of 54 = 27 (C) · 2/6 of 42 = 14 (M) · 1/5 of 85 = 17 (F) · 2/10 of 110 = 22 (R) · 2/8 of 24 = 6 (P) · 5/10 of 70 = 35 (D) · 1/2 of 74 = 37 (I) · 3/6 of 56 = 28 (O) · 4/10 of 65 = 26 (L) · 2/4 of 60 = 30 (H) · 1/2 of 48 = 24 (W) · 2/4 of 6 = 3 (S)

Clue 3 (Order of operations): "THE SUSPECT STUCK IN A SLIPPERY MUD PIT"

3 × 12 - 2 = 34 (T) · 12 × 3 - 19 = 17 (K) · 6 + 3 × 2 = 12 (I) · 9 × 10 - 13 = 77 (N) · 52 + 3 × 5 = 67 (U) · 27 + 5 × 2 = 37 (E) · 8 × 4 - 7 = 25 (L) · 6 + 6 × 3 = 24 (H) · 8 + 4 × 7 = 36 (Y) · 8 × 10 - 7 = 73 (S) · 8 + 9 × 4 = 44 (A) · 8 × 3 - 18 = 6 (M) · 25 + 4 × 7 = 53 (D) · 12 × 9 - 28 = 80 (R) · 10 × 5 - 12 = 38 (P) · 5 + 4 × 2 = 13 (C)

Clue 4 (Multiplication facts (1-12)): "A GOLD BANDANA TORN CORNER WAS LEFT BEHIND"

8 × 5 = 40 (A) · 8 × 2 = 16 (B) · 8 × 11 = 88 (I) · 7 × 1 = 7 (S) · 10 × 9 = 90 (O) · 10 × 12 = 120 (T) · 8 × 8 = 64 (H) · 5 × 3 = 15 (F) · 7 × 10 = 70 (N) · 5 × 5 = 25 (R) · 9 × 5 = 45 (E) · 8 × 9 = 72 (D) · 12 × 12 = 144 (L) · 8 × 10 = 80 (G) · 4 × 7 = 28 (C) · 4 × 12 = 48 (W)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Outdoorsy Ollie

30 ÷ 10 = 3 · 22 ÷ 11 = 2 · 40 ÷ 5 = 8 · 1 ÷ 1 = 1 · 55 ÷ 11 = 5 · 60 ÷ 6 = 10 · 144 ÷ 12 = 12 · 28 ÷ 4 = 7 · 30 ÷ 5 = 6 · 28 ÷ 7 = 4 · 99 ÷ 11 = 9