The Sky Temple Heist

Grade 4 math · Addition, Rounding, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone snuck into the high Cloud Peak Sky Temple and snatched the ancient Star Compass! Use your math skills to decode the clues and catch the sneaky thief before they sail away into the clouds.

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 Sky Bandit is _____

Possible suspects

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

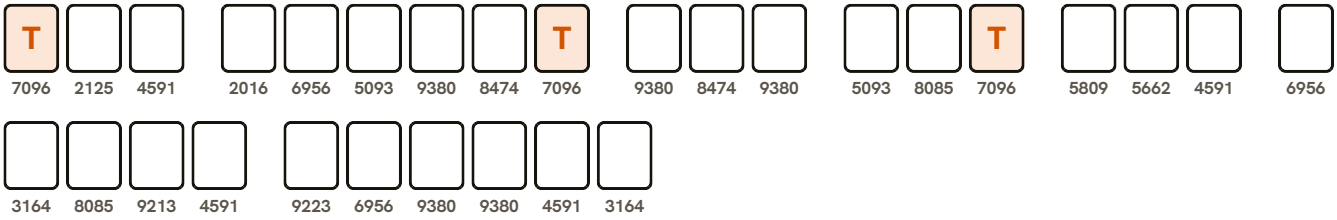
NAME	MAIN GEAR	EXTRA TOOL	DOMINANT HAND	HAIRSTYLE	WEAKNESS
Charles Lindbergh	glider wings	pocket telescope	right handed	spiky hair	bright flashlights
Edmund Hillary	compass charm	map lantern	left handed	spiky hair	loud whistles
Roald Amundsen	smoke bombs	signal whistle	right handed	spiky hair	loud whistles
Matthew Henson	climbing boots	rope ladder	left handed	spiky hair	bright flashlights
Tenzing Norgay	smoke bombs	rope ladder	left handed	spiky hair	loud whistles
Howard Hughes	smoke bombs	wind visor	left handed	braided hair	bright flashlights
Alan Shepard	grappling hook	pocket telescope	left handed	braided hair	loud whistles
Amelia Earhart	smoke bombs	map lantern	left handed	spiky hair	loud whistles
Yuri Gagarin	smoke bombs	signal whistle	left handed	spiky hair	sticky honey
Guion Bluford	grappling hook	wind visor	left handed	spiky hair	sticky honey
Kalpana Chawla	smoke bombs	rope ladder	right handed	spiky hair	sticky honey
Mae Jemison	climbing boots	pocket telescope	right handed	braided hair	loud whistles
Ibn Battuta	climbing boots	signal whistle	left handed	braided hair	loud whistles
Sacagawea	smoke bombs	pocket telescope	left handed	spiky hair	loud whistles
Leif Erikson	climbing boots	pocket telescope	left handed	braided hair	loud whistles
Nellie Bly	smoke bombs	wind visor	right handed	braided hair	loud whistles
Valentina Tereshkova	smoke bombs	map lantern	left handed	braided hair	sticky honey
Bessie Coleman	grappling hook	map lantern	left handed	braided hair	loud whistles
Marco Polo	glider wings	pocket telescope	left handed	curly hair	bright flashlights
Sally Ride	glider wings	map lantern	right handed	curly hair	sticky honey
Jacques Cousteau	compass charm	wind visor	left handed	spiky hair	loud whistles

make your own at mathcrackers.com

CLUE 1 Addition

You add up all the gear bags found on the airship deck to reveal the first hidden message.

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



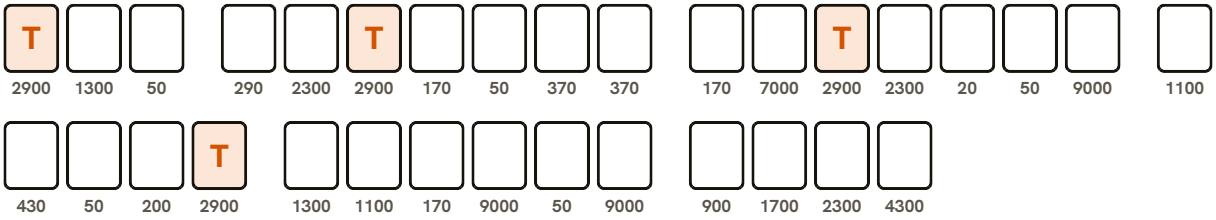
3847 + 3249 = ☐ → T	4510 + 2446 = ☐ → A	5328 + 3895 = ☐ → L
2020 + 3642 = ☐ → S	5340 + 2745 = ☐ → O	874 + 1251 = ☐ → H
6481 + 2899 = ☐ → D	1326 + 690 = ☐ → B	3718 + 2091 = ☐ → U
3023 + 6190 = ☐ → P	2440 + 2653 = ☐ → N	2623 + 1968 = ☐ → E
5247 + 3227 = ☐ → I	1427 + 1737 = ☐ → R	

Scratch space:

CLUE 2 Rounding

The altimeter screen rounds the runner height reading to the nearest hundred to show a clear clue.

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



Round 2,924 to the nearest hundred ☐ → T

Round 871 to the nearest hundred ☐ → G

Round 51 to the nearest ten ☐ → E

Round 1,280 to the nearest hundred ☐ → H

Round 368 to the nearest ten ☐ → S

Round 290 to the nearest ten ☐ → W

Round 1,749 to the nearest hundred ☐ → R

Round 427 to the nearest ten ☐ → L

Round 4,299 to the nearest hundred ☐ → P

Round 2,332 to the nearest hundred ☐ → I

Round 8,918 to the nearest thousand ☐ → D

Round 230 to the nearest hundred ☐ → F

Round 1,079 to the nearest hundred ☐ → A

Round 24 to the nearest ten ☐ → C

Round 169 to the nearest ten ☐ → N

Round 7,011 to the nearest thousand ☐ → O

Scratch space:

CLUE 3 Subtraction

You subtract the missing energy cells from the total supply to unlock the next secret paper.

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



5739 - 1905 = ☐ → L

9164 - 4515 = ☐ → A

4570 - 2504 = ☐ → V

7387 - 3245 = ☐ → T

11406 - 3846 = ☐ → H

11898 - 4112 = ☐ → C

3300 - 454 = ☐ → E

6056 - 3378 = ☐ → W

3374 - 2123 = ☐ → D

6217 - 986 = ☐ → Y

3847 - 2224 = ☐ → U

9477 - 2934 = ☐ → O

8284 - 2093 = ☐ → N

4968 - 3547 = ☐ → R

11973 - 4938 = ☐ → I

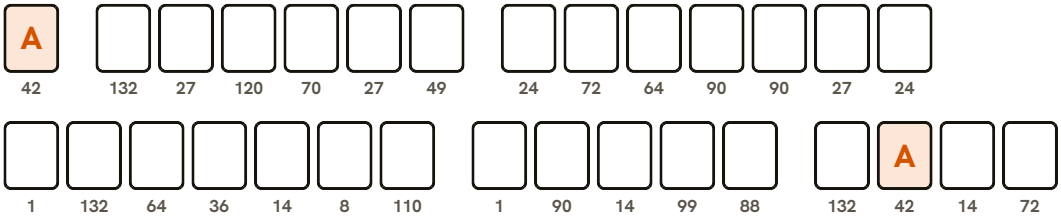
10330 - 3794 = ☐ → S

Scratch space:

CLUE 4 Multiplication facts (1-12)

You count four equal rows of storage chests to figure out the total clue count.

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



7 × 6 = ☐ → A

7 × 7 = ☐ → T

9 × 3 = ☐ → E

11 × 8 = ☐ → Y

11 × 10 = ☐ → G

7 × 2 = ☐ → I

6 × 6 = ☐ → W

9 × 11 = ☐ → K

10 × 7 = ☐ → M

1 × 1 = ☐ → S

8 × 8 = ☐ → O

12 × 10 = ☐ → L

10 × 9 = ☐ → P

6 × 4 = ☐ → D

12 × 6 = ☐ → R

12 × 11 = ☐ → H

4 × 2 = ☐ → N

Scratch space:

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

You divide the sky maps evenly among three explorers to discover the villain location.

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:

40 ÷ 10 = ☐	8 ÷ 8 = ☐	35 ÷ 7 = ☐	15 ÷ 5 = ☐	10 ÷ 5 = ☐
12 ÷ 1 = ☐	18 ÷ 3 = ☐	24 ÷ 3 = ☐	72 ÷ 8 = ☐	55 ÷ 5 = ☐
77 ÷ 11 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain checks the magic compass, then adjusts a wind visor.
2. The villain swings across the chasm, then adjusts a wind visor.
3. The villain swings across the chasm, then blows a signal whistle.
4. The villain drops a smoke cloud, then scans with a telescope.
5. The villain drops a smoke cloud, then lights a map lantern.
6. The villain drops a smoke cloud, then drops a rope ladder.
7. The villain checks the magic compass, then drops a rope ladder.
8. The villain zaps the temple lock, then scans with a telescope.
9. The villain swings across the chasm, then scans with a telescope.
10. The villain checks the magic compass, then lights a map lantern.
11. The villain scales the stone wall, then scans with a telescope.
12. The villain checks the magic compass, then scans with a telescope.

TEACHER / PARENT

Answer Key

The Sky Temple Heist

Culprit: Edmund Hillary

compass charm · map lantern · left handed · spiky hair · loud whistles

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BANDIT DID NOT USE A ROPE LADDER"

3847 + 3249 = 7096 (T) · 4510 + 2446 = 6956 (A) · 5328 + 3895 = 9223 (L) · 2020 + 3642 = 5662 (S) · 5340 + 2745 = 8085 (O) · 874 + 1251 = 2125 (H) · 6481 + 2899 = 9380 (D) · 1326 + 690 = 2016 (B) · 3718 + 2091 = 5809 (U) · 3023 + 6190 = 9213 (P) · 2440 + 2653 = 5093 (N) · 2623 + 1968 = 4591 (E) · 5247 + 3227 = 8474 (I) · 1427 + 1737 = 3164 (R)

Clue 2 (Rounding): "THE WITNESS NOTICED A LEFT HANDED GRIP"

Round 2,924 to the nearest hundred = 2900 (T) · Round 871 to the nearest hundred = 900 (G) · Round 51 to the nearest ten = 50 (E) · Round 1,280 to the nearest hundred = 1300 (H) · Round 368 to the nearest ten = 370 (S) · Round 290 to the nearest ten = 290 (W) · Round 1,749 to the nearest hundred = 1700 (R) · Round 427 to the nearest ten = 430 (L) · Round 4,299 to the nearest hundred = 4300 (P) · Round 2,332 to the nearest hundred = 2300 (I) · Round 8,918 to the nearest thousand = 9000 (D) · Round 230 to the nearest hundred = 200 (F) · Round 1,079 to the nearest hundred = 1100 (A) · Round 24 to the nearest ten = 20 (C) · Round 169 to the nearest ten = 170 (N) · Round 7,011 to the nearest thousand = 7000 (O)

Clue 3 (Subtraction): "LOUD WHISTLES SCARED THE VILLAIN AWAY"

5739 - 1905 = 3834 (L) · 9164 - 4515 = 4649 (A) · 4570 - 2504 = 2066 (V) · 7387 - 3245 = 4142 (T) · 11406 - 3846 = 7560 (H) · 11898 - 4112 = 7786 (C) · 3300 - 454 = 2846 (E) · 6056 - 3378 = 2678 (W) · 3374 - 2123 = 1251 (D) · 6217 - 986 = 5231 (Y) · 3847 - 2224 = 1623 (U) · 9477 - 2934 = 6543 (O) · 8284 - 2093 = 6191 (N) · 4968 - 3547 = 1421 (R) · 11973 - 4938 = 7035 (I) · 10330 - 3794 = 6536 (S)

Clue 4 (Multiplication facts (1-12)): "A HELMET DROPPED SHOWING SPIKY HAIR"

7 × 6 = 42 (A) · 7 × 7 = 49 (T) · 9 × 3 = 27 (E) · 11 × 8 = 88 (Y) · 11 × 10 = 110 (G) · 7 × 2 = 14 (I) · 6 × 6 = 36 (W) · 9 × 11 = 99 (K) · 10 × 7 = 70 (M) · 1 × 1 = 1 (S) · 8 × 8 = 64 (O) · 12 × 10 = 120 (L) · 10 × 9 = 90 (P) · 6 × 4 = 24 (D) · 12 × 6 = 72 (R) · 12 × 11 = 132 (H) · 4 × 2 = 8 (N)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Edmund Hillary

40 ÷ 10 = 4 · 8 ÷ 8 = 1 · 35 ÷ 7 = 5 · 15 ÷ 5 = 3 · 10 ÷ 5 = 2 · 12 ÷ 1 = 12 · 18 ÷ 3 = 6 · 24 ÷ 3 = 8 · 72 ÷ 8 = 9 · 55 ÷ 5 = 11 · 77 ÷ 11 = 7