The Cloudridge Sky Bandit

Grade 4 math · Multiplication, Word problems, Fractions of a number, Rounding, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

The golden Sunstone Compass has disappeared from the bridge of the flagship zeppelin! A masked Sky Bandit slipped aboard during the storm. Help the Cloud Squadron piece together the clues before the bandit escapes 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.

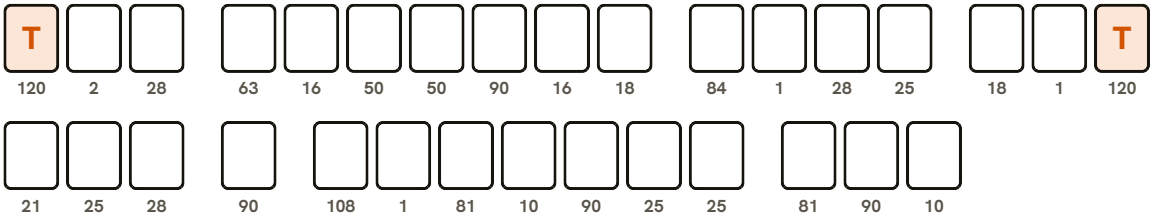
NAME	MAIN GEAR	ACCESSORY	DOMINANT HAND	HAIRSTYLE	SECRET FOIL
Corin Cirrus	Jet Pack	Compass Map	Left Handed	Auburn Crew	Loud Whistles
Captain Victor Vapor	Grappling Hook	Feathered Bandana	Left Handed	Auburn Crew	Loud Whistles
Maeve Zephyr	Smoke Bombs	Brass Goggles	Right Handed	Spiky Black	Bright Flashlights
Fiona Crest	Pulse Cannon	Brass Goggles	Right Handed	Spiky Black	Scented Soap
Jasper Ridge	Glider Wings	Compass Map	Right Handed	Auburn Crew	Bright Flashlights
Captain Gideon Vault	Jet Pack	Brass Goggles	Right Handed	Spiky Black	Scented Soap
Captain Roderick Storm	Pulse Cannon	Spyglass	Left Handed	Auburn Crew	Loud Whistles
Cleo Horizon	Grappling Hook	Compass Map	Right Handed	Spiky Black	Scented Soap
Quentin Gust	Pulse Cannon	Spyglass	Left Handed	Auburn Crew	Bright Flashlights
Leo Thermal	Jet Pack	Signal Torch	Right Handed	Auburn Crew	Loud Whistles
Captain Piper Sky	Smoke Bombs	Feathered Bandana	Left Handed	Auburn Crew	Scented Soap
Barnaby Skyspinner	Glider Wings	Brass Goggles	Left Handed	Braided Gold	Scented Soap
Jax Stratus	Glider Wings	Brass Goggles	Left Handed	Auburn Crew	Loud Whistles
Finnian Gale	Grappling Hook	Compass Map	Left Handed	Auburn Crew	Loud Whistles
Penny Windward	Smoke Bombs	Feathered Bandana	Left Handed	Spiky Black	Loud Whistles
Tessa Cloudrider	Glider Wings	Feathered Bandana	Left Handed	Spiky Black	Loud Whistles
Bodhi Aero	Grappling Hook	Feathered Bandana	Left Handed	Braided Gold	Bright Flashlights
Silas Breeze	Glider Wings	Signal Torch	Left Handed	Braided Gold	Scented Soap
Rowan Jet	Pulse Cannon	Signal Torch	Left Handed	Auburn Crew	Loud Whistles
Toby Mistwalker	Jet Pack	Compass Map	Left Handed	Auburn Crew	Scented Soap
Captain Silas Drift	Glider Wings	Compass Map	Right Handed	Braided Gold	Bright Flashlights

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CLUE 1 Multiplication facts (1-12)

> You find a stack of supply crates in the airship hangar arranged in neat equal rows.

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



12 × 10 = ☐ → T	2 × 8 = ☐ → I	7 × 3 = ☐ → U
7 × 12 = ☐ → D	10 × 9 = ☐ → A	5 × 10 = ☐ → L
12 × 9 = ☐ → C	10 × 1 = ☐ → P	1 × 1 = ☐ → O
1 × 2 = ☐ → H	7 × 4 = ☐ → E	7 × 9 = ☐ → V
5 × 5 = ☐ → S	9 × 9 = ☐ → M	6 × 3 = ☐ → N

Scratch space:

CLUE 2 Word problems

Quartermaster Jax hands you a logbook detailing missing gear from the main deck.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was

L							D		D
46	72	32	50	49	57	25		72	

.

Sky Cadet found 6 grappling ropes yesterday and 40 more today. How many grappling ropes in all?

Answer: ☐ → L

Sky Cadet lined up 6 rows of 12 cloud crystals. How many cloud crystals in all?

Answer: ☐ → E

Sky Cadet lined up 7 rows of 7 glider straps. How many glider straps in all?

Answer: ☐ → H

Sky Cadet lined up 4 rows of 8 grappling ropes. How many grappling ropes in all?

Answer: ☐ → F

Sky Cadet found 21 cloud crystals yesterday and 36 more today. How many cloud crystals in all?

Answer: ☐ → A

There were 63 cloud crystals. 13 were used up. How many cloud crystals are left?

Answer: ☐ → T

Sky Cadet lined up 5 rows of 5 brass gears. How many brass gears in all?

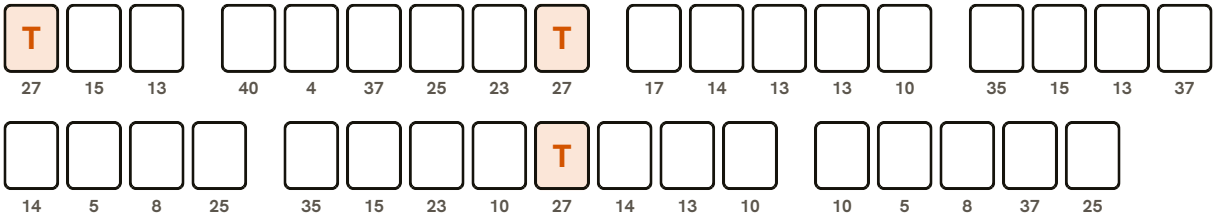
Answer: ☐ → N

Scratch space:

CLUE 3 Fractions of a number

> The navigator notes that only a fraction of the glowing cloud crystal stash remains.

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



2/4 of 54 = ☐ → T

2/10 of 50 = ☐ → S

2/6 of 75 = ☐ → D

2/4 of 70 = ☐ → W

1/5 of 40 = ☐ → U

1/10 of 140 = ☐ → L

1/2 of 74 = ☐ → N

3/5 of 25 = ☐ → H

1/5 of 200 = ☐ → B

1/6 of 102 = ☐ → F

1/3 of 39 = ☐ → E

2/10 of 20 = ☐ → A

2/4 of 46 = ☐ → I

2/6 of 15 = ☐ → O

Scratch space:

CLUE 4 Rounding

The sky radar screen glimmers showing an estimated altitude rounded to the nearest hundred.

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

A											A					A			
500	90	2300	90	5000	20	300	5000	230	3700	3000	500	4300	5000	3700	500	1300			

		A							A				A						
1300	20	500	900	900	230	200	170	20	500	1300	290	5000	500	2900					

Round 475 to the nearest hundred ☐ → A

Round 3,156 to the nearest thousand ☐ → H

Round 168 to the nearest ten ☐ → O

Round 291 to the nearest ten ☐ → T

Round 169 to the nearest hundred ☐ → D

Round 226 to the nearest ten ☐ → E

Round 90 to the nearest ten ☐ → U

Round 2,331 to the nearest hundred ☐ → B

Round 2,933 to the nearest hundred ☐ → P

Round 4,283 to the nearest hundred ☐ → I

Round 17 to the nearest ten ☐ → N

Round 858 to the nearest hundred ☐ → G

Round 3,717 to the nearest hundred ☐ → W

Round 276 to the nearest hundred ☐ → C

Round 1,325 to the nearest hundred ☐ → S

Round 4,674 to the nearest thousand ☐ → R

Scratch space:

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

> The crew shares out the leftover rescue ropes equally among the search teams.

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:

48 ÷ 12 = ☐ | 84 ÷ 7 = ☐ | 100 ÷ 10 = ☐ | 81 ÷ 9 = ☐ | 55 ÷ 11 = ☐

77 ÷ 11 = ☐ | 56 ÷ 7 = ☐ | 36 ÷ 6 = ☐ | 77 ÷ 7 = ☐ | 6 ÷ 3 = ☐

24 ÷ 8 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain deployed glider wings, then adjusted brass goggles.
2. The villain threw smoke bombs, then peered through a spyglass.
3. The villain swung a grappling hook, then peered through a spyglass.
4. The villain charged a pulse cannon, then waved a signal torch.
5. The villain threw smoke bombs, then consulted a compass map.
6. The villain ignited a jet pack, then consulted a compass map.
7. The villain swung a grappling hook, then waved a signal torch.
8. The villain deployed glider wings, then waved a signal torch.
9. The villain threw smoke bombs, then waved a signal torch.
10. The villain charged a pulse cannon, then peered through a spyglass.
11. The villain ignited a jet pack, then tucked a feathered bandana.
12. The villain swung a grappling hook, then tucked a feathered bandana.

TEACHER / PARENT

Answer Key

The Cloudridge Sky Bandit

Culprit: Jax Stratus

Glider Wings · Brass Goggles · Left Handed · Auburn Crew · Loud Whistles

Trail: Start 21 → Clue 1 15 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT USE A COMPASS MAP"

12 × 10 = 120 (T) · 2 × 8 = 16 (I) · 7 × 3 = 21 (U) · 7 × 12 = 84 (D) · 10 × 9 = 90 (A) · 5 × 10 = 50 (L) · 12 × 9 = 108 (C) · 10 × 1 = 10 (P) · 1 × 1 = 1 (O) · 1 × 2 = 2 (H) · 7 × 4 = 28 (E) · 7 × 9 = 63 (V) · 6 × 3 = 18 (N) · 5 × 5 = 25 (S) · 9 × 9 = 81 (M)

Clue 2 (Word problems): "LEFT HANDED"

Sky Cadet found 6 grappling ropes yesterday and 40 more today. How many grappling ropes in all? = 46 (L) · Sky Cadet lined up 6 rows of 12 cloud crystals. How many cloud crystals in all? = 72 (E) · Sky Cadet lined up 7 rows of 7 glider straps. How many glider straps in all? = 49 (H) · Sky Cadet lined up 4 rows of 8 grappling ropes. How many grappling ropes in all? = 32 (F) · Sky Cadet found 21 cloud crystals yesterday and 36 more today. How many cloud crystals in all? = 57 (A) · There were 63 cloud crystals. 13 were used up. How many cloud crystals are left? = 50 (T) · Sky Cadet lined up 5 rows of 5 brass gears. How many brass gears in all? = 25 (N)

Clue 3 (Fractions of a number): "THE BANDIT FLEES WHEN LOUD WHISTLES SOUND"

2/4 of 54 = 27 (T) · 2/10 of 50 = 10 (S) · 2/6 of 75 = 25 (D) · 2/4 of 70 = 35 (W) · 1/5 of 40 = 8 (U) · 1/10 of 140 = 14 (L) · 1/2 of 74 = 37 (N) · 3/5 of 25 = 15 (H) · 1/5 of 200 = 40 (B) · 1/6 of 102 = 17 (F) · 1/3 of 39 = 13 (E) · 2/10 of 20 = 4 (A) · 2/4 of 46 = 23 (I) · 2/6 of 15 = 5 (O)

Clue 4 (Rounding): "AUBURN CREW HAIR WAS SNAGGED ON A STRAP"

Round 475 to the nearest hundred = 500 (A) · Round 3,156 to the nearest thousand = 3000 (H) · Round 168 to the nearest ten = 170 (O) · Round 291 to the nearest ten = 290 (T) · Round 169 to the nearest hundred = 200 (D) · Round 226 to the nearest ten = 230 (E) · Round 90 to the nearest ten = 90 (U) · Round 2,331 to the nearest hundred = 2300 (B) · Round 2,933 to the nearest hundred = 2900 (P) · Round 4,283 to the nearest hundred = 4300 (I) · Round 17 to the nearest ten = 20 (N) · Round 858 to the nearest hundred = 900 (G) · Round 3,717 to the nearest hundred = 3700 (W) · Round 276 to the nearest hundred = 300 (C) · Round 1,325 to the nearest hundred = 1300 (S) · Round 4,674 to the nearest thousand = 5000 (R)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Jax Stratus

48 ÷ 12 = 4 · 84 ÷ 7 = 12 · 100 ÷ 10 = 10 · 81 ÷ 9 = 9 · 55 ÷ 11 = 5 · 77 ÷ 11 = 7 · 56 ÷ 7 = 8 · 36 ÷ 6 = 6 · 77 ÷ 7 = 11 · 6 ÷ 3 = 2 · 24 ÷ 8 = 3