



The Great Sky Chase

Grade 2 math · Place value, Addition, Subtraction, Skip counting, Missing addends · Reading level grades 3-4

Detective: _____ Date: _____

The Golden Compass has been stolen from the Chief Cloud Keeper! Without it, our flying skyships will get lost in the storm clouds. The Sky Patrol needs your help to crack the codes, track the clues, and find the sneaky Sky Bandit before they escape into the wind!

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	FLIGHT GEAR	POCKET GADGET	EYE WEAR	CAP COLOR	DISTRACTION
Luke	Steam Jetpack	Magnet Glove	No Goggles	Green Cap	Loud Noises
Jake	Steam Jetpack	Magnet Glove	No Goggles	Blue Cap	Loud Noises
Ryan	Wind Sail	Smoke Bomb	Wearing Goggles	Red Cap	Loud Noises
Max	Turbo Glider	Sound Blaster	No Goggles	Blue Cap	Shiny Coins
Ben	Grappling Hook	Smoke Bomb	Wearing Goggles	Blue Cap	Loud Noises
Finn	Grappling Hook	Magnet Glove	Wearing Goggles	Green Cap	Sweet Berries
Cole	Jet Boots	Net Launcher	Wearing Goggles	Red Cap	Loud Noises
Ruby	Steam Jetpack	Magnet Glove	No Goggles	Red Cap	Loud Noises
Zara	Wind Sail	Flash Flare	No Goggles	Red Cap	Loud Noises
Lily	Turbo Glider	Flash Flare	No Goggles	Green Cap	Loud Noises
Mia	Jet Boots	Flash Flare	No Goggles	Green Cap	Loud Noises
Eva	Wind Sail	Smoke Bomb	Wearing Goggles	Green Cap	Sweet Berries
Sienna	Turbo Glider	Magnet Glove	No Goggles	Blue Cap	Sweet Berries
Abby	Jet Boots	Flash Flare	No Goggles	Red Cap	Shiny Coins
Eli	Grappling Hook	Net Launcher	Wearing Goggles	Red Cap	Sweet Berries
Kai	Turbo Glider	Flash Flare	Wearing Goggles	Red Cap	Loud Noises
Ella	Steam Jetpack	Magnet Glove	Wearing Goggles	Red Cap	Loud Noises
Owen	Jet Boots	Magnet Glove	No Goggles	Blue Cap	Shiny Coins
Sam	Wind Sail	Sound Blaster	Wearing Goggles	Red Cap	Loud Noises
Jack	Jet Boots	Net Launcher	Wearing Goggles	Green Cap	Loud Noises
Zoe	Wind Sail	Sound Blaster	No Goggles	Red Cap	Sweet Berries

CLUE 1 Place value

The control panel at the sky dock shows a digital code. Look at the tens and ones places to unlock the first clue!

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

79 12 39 62 50 73 73 63 50 23 61 26 39 99 23 26 79

46 99 39 63 60 63 81 23 39 79 81 73 26 62 39

What number has 7 tens and 9 ones? → **T**

What number has 6 tens and 2 ones? → **V**

What number has 6 tens and 1 one? → **D**

What number has 9 tens and 9 ones? → **S**

What number has 2 tens and 3 ones?	→	N
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What number has 5 tens and 0 ones?	→	!
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What number has 2 tens and 6 ones? → ☒

What number has 6 tens and 0 ones? → **M**

What number has 7 tens and 3 ones? → **L**

What number has 1 ten and 2 ones? → **H**

What number has 8 tens and 1 one? → **G**

What number has 6 tens and 3 ones? → **A**

What number has 3 tens and 9 ones? → **E**

What number has 4 tens and 6 ones? → **U**

Scratch space:

CLUE 2 Addition

To track the bandit, we must count the footprints left on two different cloud platforms. Add them up!

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

T																			
30	33	95	66	22	95	89	67	24	23	89	22	81	32	30	36	89	66		

36	95	89	73	32	22	68	68	64	68	68	87	95	66	

$21 + 9 = \square \rightarrow \text{T}$	$15 + 21 = \square \rightarrow \text{W}$	$48 + 20 = \square \rightarrow \text{G}$
$38 + 26 = \square \rightarrow \text{O}$	$19 + 14 = \square \rightarrow \text{H}$	$9 + 23 = \square \rightarrow \text{I}$
$49 + 40 = \square \rightarrow \text{A}$	$37 + 36 = \square \rightarrow \text{R}$	$8 + 14 = \square \rightarrow \text{N}$
$31 + 35 = \square \rightarrow \text{S}$	$47 + 34 = \square \rightarrow \text{D}$	$42 + 45 = \square \rightarrow \text{L}$
$59 + 36 = \square \rightarrow \text{E}$	$11 + 13 = \square \rightarrow \text{Y}$	$39 + 28 = \square \rightarrow \text{K}$
$9 + 14 = \square \rightarrow \text{B}$		

Scratch space:

CLUE 3

Subtraction

The bandit dropped some gear but kept the rest. Subtract the dropped gear from the total to see what remains!

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

T																		
81	63	54	31	30	24	41	24	33	24	31	19	30	49	89	51	49	60	13

41	49	22	70	54	70

$91 - 10 = \square \rightarrow \boxed{\text{T}}$

$87 - 33 = \square \rightarrow \boxed{\text{E}}$

$94 - 34 = \square \rightarrow \boxed{\text{U}}$

$53 - 29 = \square \rightarrow \boxed{\text{A}}$

$43 - 21 = \square \rightarrow \boxed{\text{I}}$

$35 - 22 = \square \rightarrow \boxed{\text{D}}$

$58 - 25 = \square \rightarrow \boxed{\text{W}}$

$81 - 32 = \square \rightarrow \boxed{\text{O}}$

$50 - 31 = \square \rightarrow \boxed{\text{F}}$

$120 - 31 = \square \rightarrow \boxed{\text{M}}$

$61 - 31 = \square \rightarrow \boxed{\text{R}}$

$68 - 5 = \square \rightarrow \boxed{\text{H}}$

$66 - 15 = \square \rightarrow \boxed{\text{L}}$

$74 - 4 = \square \rightarrow \boxed{\text{S}}$

$58 - 27 = \square \rightarrow \boxed{\text{Y}}$

$55 - 14 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 4 Skip counting

To cross the floating stepping stones, we must follow a number pattern. Skip count by the right number to reach the other side!

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

A					A					A			A		
22	55	39	60	140	22	40	80	45	55	39	22	60	100	22	27
				A											
24	39	20	80	22	80	80	45	39	27	140	39	110	39		

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 → **D**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **S**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **L**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 → **P**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 → **N**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **C**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 → **F**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 → **H**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 → **R**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 → **W**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 → **E**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 → **T**

Scratch space:

CLUE 5**Missing addends - the last clue**

Our energy compass is almost full but needs a little more power. Find the missing amount of power cells to activate it!

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:

$6 + \underline{\quad} = 7$

$3 + \underline{\quad} = 12$

$7 + \underline{\quad} = 11$

$3 + \underline{\quad} = 8$

$5 + \underline{\quad} = 7$

$10 + \underline{\quad} = 13$

$2 + \underline{\quad} = 8$

$9 + \underline{\quad} = 20$

$1 + \underline{\quad} = 13$

$7 + \underline{\quad} = 17$

$9 + \underline{\quad} = 16$

Step 2 - cross out the sentence with each answer:

1. The villain blasted past on jet boots, then trapped the guard dogs with a net launcher.
2. The villain swung through the air with a grappling hook, then escaped in a cloud from a smoke bomb.
3. The villain zoomed into the sky with a steam jetpack, then blinded the guards with a flash flare.
4. The villain swooped down on a turbo glider, then blinded the guards with a flash flare.
5. The villain blasted past on jet boots, then snatched the keys using a magnet glove.
6. The villain zoomed into the sky with a steam jetpack, then escaped in a cloud from a smoke bomb.
7. The villain blasted past on jet boots, then confused everyone with a sound blaster.
8. The villain caught the breeze with a wind sail, then escaped in a cloud from a smoke bomb.
9. The villain caught the breeze with a wind sail, then confused everyone with a sound blaster.
10. The villain zoomed into the sky with a steam jetpack, then snatched the keys using a magnet glove.
11. The villain swung through the air with a grappling hook, then blinded the guards with a flash flare.
12. The villain caught the breeze with a wind sail, then blinded the guards with a flash flare.

Answer Key

The Great Sky Chase

Culprit: Ryan

Wind Sail · Smoke Bomb · Wearing Goggles · Red Cap · Loud Noises

Trail: Start 21 → Clue 1 14 → Clue 2 8 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE A MAGNET GLOVE"

What number has 7 tens and 9 ones? = 79 (T) · What number has 6 tens and 2 ones? = 62 (V) · What number has 6 tens and 1 one? = 61 (D) · What number has 9 tens and 9 ones? = 99 (S) · What number has 2 tens and 3 ones? = 23 (N) · What number has 5 tens and 0 ones? = 50 (I) · What number has 2 tens and 6 ones? = 26 (O) · What number has 6 tens and 0 ones? = 60 (M) · What number has 7 tens and 3 ones? = 73 (L) · What number has 1 ten and 2 ones? = 12 (H) · What number has 8 tens and 1 one? = 81 (G) · What number has 6 tens and 3 ones? = 63 (A) · What number has 3 tens and 9 ones? = 39 (E) · What number has 4 tens and 6 ones? = 46 (U)

Clue 2 (Addition): "THE SNEAKY BANDIT WAS WEARING GOGGLES"

$21 + 9 = 30$ (T) · $15 + 21 = 36$ (W) · $48 + 20 = 68$ (G) · $38 + 26 = 64$ (O) · $19 + 14 = 33$ (H) · $9 + 23 = 32$ (I) · $49 + 40 = 89$ (A) · $37 + 36 = 73$ (R) · $8 + 14 = 22$ (N) · $31 + 35 = 66$ (S) · $47 + 34 = 81$ (D) · $42 + 45 = 87$ (L) · $59 + 36 = 95$ (E) · $11 + 13 = 24$ (Y) · $39 + 28 = 67$ (K) · $9 + 14 = 23$ (B)

Clue 3 (Subtraction): "THEY RAN AWAY FROM LOUD NOISES"

$91 - 10 = 81$ (T) · $87 - 33 = 54$ (E) · $94 - 34 = 60$ (U) · $53 - 29 = 24$ (A) · $43 - 21 = 22$ (I) · $35 - 22 = 13$ (D) · $58 - 25 = 33$ (W) · $81 - 32 = 49$ (O) · $50 - 31 = 19$ (F) · $120 - 31 = 89$ (M) · $61 - 31 = 30$ (R) · $68 - 5 = 63$ (H) · $66 - 15 = 51$ (L) · $74 - 4 = 70$ (S) · $58 - 27 = 31$ (Y) · $55 - 14 = 41$ (N)

Clue 4 (Skip counting): "A RED CAP THREAD WAS LEFT AT THE SCENE"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 = 22 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 = 60 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (L) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (P) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (C) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 = 20 (F) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (W) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (T)

Clue 5 (Missing addends): surviving statement is box 8 → Ryan

$6 + \underline{\quad} = 7 = 1$ · $3 + \underline{\quad} = 12 = 9$ · $7 + \underline{\quad} = 11 = 4$ · $3 + \underline{\quad} = 8 = 5$ · $5 + \underline{\quad} = 7 = 2$ · $10 + \underline{\quad} = 13 = 3$ · $2 + \underline{\quad} = 8 = 6$ · $9 + \underline{\quad} = 20 = 11$ · $1 + \underline{\quad} = 13 = 12$ · $7 + \underline{\quad} = 17 = 10$ · $9 + \underline{\quad} = 16 = 7$