



The Hijacked Kid 747 Mystery

Grade 5 math · Addition, Subtraction, Multiplication, Fractions of a number · Reading level grades 5-6

Detective: _____ **Date:** _____

Police Chief Joshua Dax Zeno stared out the window of his high-tech command chopper. The Kid 747, a massive double-decker jumbo jet turned flying amusement park, has been hijacked! A mysterious rogue pilot has bypassed the auto-pilot system. Chief Joshua needs your detective skills to crack the cabin security codes, narrow down the suspect pool, and save the coolest plane in the sky.

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 rogue pilot 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	HIJACK GADGET	PILOT HABIT	AVIATOR HAIR	FEAR
Toby Turbo	Gravity Boots	Signal Jammer	Left-handed	Neon Spiky	Loud Whistles
Stella Stratos	Gravity Boots	Sleep Gas	Left-handed	Curly Blonde	Shiny Flashlights
Leo Landing	Gravity Boots	Remote Override	Left-handed	Sleek Black	Tickle Feathers
Gavin Glider	Turbo Glider	Code Breaker	Right-handed	Sleek Black	Tickle Feathers
Hazel Horizon	Turbo Glider	Signal Jammer	Right-handed	Curly Blonde	Shiny Flashlights
Daisy Cloud	Turbo Glider	Sleep Gas	Left-handed	Neon Spiky	Loud Whistles
Piper Propeller	Turbo Glider	Static Blaster	Right-handed	Sleek Black	Loud Whistles
Kira Kayak	Stealth Helmet	Signal Jammer	Right-handed	Curly Blonde	Tickle Feathers
Jax Jetstream	Laser Goggles	Signal Jammer	Left-handed	Neon Spiky	Shiny Flashlights
Val Velocity	Stealth Helmet	Signal Jammer	Right-handed	Neon Spiky	Tickle Feathers
Quinn Quick	Turbo Glider	Static Blaster	Left-handed	Curly Blonde	Shiny Flashlights
Fiona Flaps	Gravity Boots	Static Blaster	Left-handed	Neon Spiky	Shiny Flashlights
Ulysses Updraft	Gravity Boots	Code Breaker	Left-handed	Sleek Black	Tickle Feathers
Maya Mach	Jet Pack	Signal Jammer	Left-handed	Neon Spiky	Tickle Feathers
Eli Altitude	Jet Pack	Code Breaker	Left-handed	Neon Spiky	Loud Whistles
Wyatt Wind	Turbo Glider	Signal Jammer	Left-handed	Neon Spiky	Loud Whistles
Ian Instrument	Gravity Boots	Remote Override	Left-handed	Sleek Black	Loud Whistles
Ace Sterling	Turbo Glider	Sleep Gas	Right-handed	Curly Blonde	Loud Whistles
Ray Radar	Gravity Boots	Code Breaker	Right-handed	Neon Spiky	Loud Whistles
Charlie Jet	Gravity Boots	Sleep Gas	Left-handed	Neon Spiky	Loud Whistles
Brooke Sky	Jet Pack	Sleep Gas	Right-handed	Neon Spiky	Loud Whistles

CLUE 1 Addition

Chief Joshua Dax Zeno needs to count the extra seatbelts left in the main cabin. Adding these supplies up will reveal our first major clue about the hijacker's gear.

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

T																	T
6363	3703	7523	3703	6973	5930	9449	8854	3609	7523	6464	3505	2351	7523	9837	2865	2351	6363
			T														
3685	9837	7523	6363	3703	7523	8854	2351	3505	7523	8565	6464	7523	9449	3609	7523	6464	

$4036 + 2327 = \square \rightarrow$ T	$3224 + 3749 = \square \rightarrow$ I	$1103 + 2506 = \square \rightarrow$ K
$2444 + 5079 = \square \rightarrow$ E	$4852 + 4597 = \square \rightarrow$ A	$1364 + 1501 = \square \rightarrow$ N
$5497 + 3357 = \square \rightarrow$ C	$1365 + 2140 = \square \rightarrow$ D	$3512 + 6325 = \square \rightarrow$ S
$4496 + 1968 = \square \rightarrow$ R	$4247 + 4318 = \square \rightarrow$ B	$2350 + 3580 = \square \rightarrow$ J
$1933 + 1770 = \square \rightarrow$ H	$1337 + 1014 = \square \rightarrow$ O	$2271 + 1414 = \square \rightarrow$ U

Scratch space:

CLUE 2 Subtraction

The rogue pilot dumped several fuel canisters into the clouds. Subtracting the empty tanks from the starting total will help us crack the flight deck security lock.

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

T										T									
5238	2322	8577	7857	5800	7857	1155	8577	5045	5238	3904	7768	7888	5238	8577	7857	8623	5077	4982	7857
		T		T					T										
3904	7888	5238	2322	5238	2322	8577	8623	8577	8751	5238	2322	8011	6271	6066					

5882 - 644 = → T	9137 - 1280 = → S	9047 - 2981 = → D
11723 - 3712 = → A	7437 - 2360 = → O	4132 - 1810 = → H
10743 - 2120 = → L	4396 - 492 = → W	3274 - 2119 = → P
6691 - 1646 = → C	13250 - 4673 = → E	9224 - 2953 = → N
9435 - 684 = → F	9512 - 1744 = → R	11480 - 3592 = → I
7121 - 1321 = → U	9049 - 4067 = → G	

Scratch space:

CLUE 3

Multiplication facts (1-12)

We found rows of matching luggage in the cargo hold. Multiplying the rows of bags gives us the bypass code for the engine override system.

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

L										L						L	L
70	40	2	27	121	72	99	100	144	70	96	100	121	99	70	70		
				L							L						
96	35	100	99	70	50	100	144	35	11	144	70	96	144	72	96	81	

$7 \times 10 = \square \rightarrow \boxed{\text{L}}$

$6 \times 12 = \square \rightarrow \boxed{\text{H}}$

$10 \times 5 = \square \rightarrow \boxed{\text{Y}}$

$10 \times 10 = \square \rightarrow \boxed{\text{S}}$

$12 \times 12 = \square \rightarrow \boxed{\text{T}}$

$2 \times 1 = \square \rightarrow \boxed{\text{U}}$

$5 \times 7 = \square \rightarrow \boxed{\text{A}}$

$8 \times 12 = \square \rightarrow \boxed{\text{E}}$

$9 \times 3 = \square \rightarrow \boxed{\text{D}}$

$11 \times 11 = \square \rightarrow \boxed{\text{W}}$

$5 \times 8 = \square \rightarrow \boxed{\text{O}}$

$11 \times 9 = \square \rightarrow \boxed{\text{I}}$

$9 \times 9 = \square \rightarrow \boxed{\text{M}}$

$1 \times 11 = \square \rightarrow \boxed{\text{R}}$

Scratch space:

CLUE 4
Fractions of a number

The cockpit computer screen only shows a fraction of the remaining battery level. Finding this fraction of the total volts will boot up the suspect profile.

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

S									S	S								
9	30	39	28	33	27	17	23	33	9	9	30	26	38	38	17	2		
									S									
32	23	7	5	13	38	6	17	26	6	9	30	7	3	39	13	33	7	23

$1/4 \text{ of } 36 = \square \rightarrow \text{S}$

$2/4 \text{ of } 78 = \square \rightarrow \text{Y}$

$4/8 \text{ of } 10 = \square \rightarrow \text{G}$

$1/10 \text{ of } 170 = \square \rightarrow \text{E}$

$1/6 \text{ of } 180 = \square \rightarrow \text{P}$

$4/5 \text{ of } 40 = \square \rightarrow \text{B}$

$1/4 \text{ of } 108 = \square \rightarrow \text{M}$

$2/3 \text{ of } 57 = \square \rightarrow \text{T}$

$1/6 \text{ of } 78 = \square \rightarrow \text{H}$

$2/8 \text{ of } 104 = \square \rightarrow \text{O}$

$4/8 \text{ of } 4 = \square \rightarrow \text{D}$

$2/10 \text{ of } 140 = \square \rightarrow \text{C}$

$4/8 \text{ of } 14 = \square \rightarrow \text{I}$

$3/10 \text{ of } 10 = \square \rightarrow \text{K}$

$1/3 \text{ of } 69 = \square \rightarrow \text{R}$

$4/6 \text{ of } 9 = \square \rightarrow \text{N}$

$6/8 \text{ of } 44 = \square \rightarrow \text{A}$

Scratch space:

CLUE 5**Fractions of a number - the last clue**

Only a small fraction of the emergency escape pods are still active. Calculating this fraction of the pods lets us pinpoint where the suspect is hiding.

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:

$6/8 \text{ of } 4 = \boxed{}$

$1/4 \text{ of } 40 = \boxed{}$

$2/4 \text{ of } 10 = \boxed{}$

$1/3 \text{ of } 3 = \boxed{}$

$3/5 \text{ of } 15 = \boxed{}$

$4/8 \text{ of } 16 = \boxed{}$

$1/10 \text{ of } 110 = \boxed{}$

$2/4 \text{ of } 4 = \boxed{}$

$1/2 \text{ of } 12 = \boxed{}$

$5/10 \text{ of } 24 = \boxed{}$

$1/8 \text{ of } 32 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain dims the cabin lights, then swings on the cargo rope.
2. The villain disables the radar cabin, then deploys the emergency chute.
3. The villain jams the radio tower, then swings on the cargo rope.
4. The villain disables the radar cabin, then swings on the cargo rope.
5. The villain jams the radio tower, then escapes down the slide.
6. The villain disables the radar cabin, then escapes down the slide.
7. The villain locks the cockpit doors, then escapes down the slide.
8. The villain diverts the fuel valves, then leaps onto a cloud glider.
9. The villain dims the cabin lights, then zooms away on a scooter.
10. The villain locks the cockpit doors, then swings on the cargo rope.
11. The villain jams the radio tower, then zooms away on a scooter.
12. The villain diverts the fuel valves, then deploys the emergency chute.

Answer Key

The Hijacked Kid 747 Mystery

Culprit: Wyatt Wind

Turbo Glider · Signal Jammer · Left-handed · Neon Spiky · Loud Whistles

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE HIJACKER DOES NOT USE THE CODE BREAKER"

$4036 + 2327 = 6363$ (T) · $3224 + 3749 = 6973$ (I) · $1103 + 2506 = 3609$ (K) · $2444 + 5079 = 7523$ (E) · $4852 + 4597 = 9449$ (A) · $1364 + 1501 = 2865$ (N) · $5497 + 3357 = 8854$ (C) · $1365 + 2140 = 3505$ (D) · $3512 + 6325 = 9837$ (S) · $4496 + 1968 = 6464$ (R) · $4247 + 4318 = 8565$ (B) · $2350 + 3580 = 5930$ (J) · $1933 + 1770 = 3703$ (H) · $1337 + 1014 = 2351$ (O) · $2271 + 1414 = 3685$ (U)

Clue 2 (Subtraction): "THE SUSPECT WRITES LOGS WITH THE LEFT HAND"

$5882 - 644 = 5238$ (T) · $9137 - 1280 = 7857$ (S) · $9047 - 2981 = 6066$ (D) · $11723 - 3712 = 8011$ (A) · $7437 - 2360 = 5077$ (O) · $4132 - 1810 = 2322$ (H) · $10743 - 2120 = 8623$ (L) · $4396 - 492 = 3904$ (W) · $3274 - 2119 = 1155$ (P) · $6691 - 1646 = 5045$ (C) · $13250 - 4673 = 8577$ (E) · $9224 - 2953 = 6271$ (N) · $9435 - 684 = 8751$ (F) · $9512 - 1744 = 7768$ (R) · $11480 - 3592 = 7888$ (I) · $7121 - 1321 = 5800$ (U) · $9049 - 4067 = 4982$ (G)

Clue 3 (Multiplication facts (1-12)): "LOUD WHISTLES WILL EASILY STARTLE THEM"

$7 \times 10 = 70$ (L) · $6 \times 12 = 72$ (H) · $10 \times 5 = 50$ (Y) · $10 \times 10 = 100$ (S) · $12 \times 12 = 144$ (T) · $2 \times 1 = 2$ (U) · $5 \times 7 = 35$ (A) · $8 \times 12 = 96$ (E) · $9 \times 3 = 27$ (D) · $11 \times 11 = 121$ (W) · $5 \times 8 = 40$ (O) · $11 \times 9 = 99$ (I) · $9 \times 9 = 81$ (M) · $1 \times 11 = 11$ (R)

Clue 4 (Fractions of a number): "SPY CAMERAS SPOTTED BRIGHT NEON SPIKY HAIR"

$1/4$ of 36 = 9 (S) · $2/4$ of 78 = 39 (Y) · $4/8$ of 10 = 5 (G) · $1/10$ of 170 = 17 (E) · $1/6$ of 180 = 30 (P) · $4/5$ of 40 = 32 (B) · $1/4$ of 108 = 27 (M) · $2/3$ of 57 = 38 (T) · $1/6$ of 78 = 13 (H) · $2/8$ of 104 = 26 (O) · $4/8$ of 4 = 2 (D) · $2/10$ of 140 = 28 (C) · $4/8$ of 14 = 7 (I) · $3/10$ of 10 = 3 (K) · $1/3$ of 69 = 23 (R) · $4/6$ of 9 = 6 (N) · $6/8$ of 44 = 33 (A)

Clue 5 (Fractions of a number): surviving statement is box 7 → Wyatt Wind

$6/8$ of 4 = 3 · $1/4$ of 40 = 10 · $2/4$ of 10 = 5 · $1/3$ of 3 = 1 · $3/5$ of 15 = 9 · $4/8$ of 16 = 8 · $1/10$ of 110 = 11 · $2/4$ of 4 = 2 · $1/2$ of 12 = 6 · $5/10$ of 24 = 12 · $1/8$ of 32 = 4