



The Air Force One Capers

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

Detective: _____ **Date:** _____

The presidential flight was smooth until the Flight Commander discovered the Golden State Seal was missing from the high-security safe! A mysterious guest on board has bypassed the electronic locks. We need to analyze the clues and find the culprit before we land.

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 Heist Mastermind is _____

Possible suspects

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

NAME	DIPLOMATIC RANK	SPECIAL GEAR	WRITING HAND	HAIR COLOR	ALLERGY TRIGGER
Franklin Roosevelt	Supreme Chancellor	Cryptophone	Right-handed	Blonde Hair	Tomato Juice
Jimmy Carter	Five Star General	Decoy Flare	Left-handed	Blonde Hair	Cold Coffee
John Adams	Commander in Chief	Stealth Radar	Left-handed	Silver Hair	Tomato Juice
Lyndon Johnson	Chief Diplomat	Stealth Radar	Right-handed	Blonde Hair	Tomato Juice
Abraham Lincoln	Commander in Chief	Cryptophone	Left-handed	Blonde Hair	Tomato Juice
Bill Clinton	Commander in Chief	Laser Pointer	Left-handed	Silver Hair	Tomato Juice
Nelson Mandela	Supreme Chancellor	Cryptophone	Right-handed	Blonde Hair	Spicy Nuts
George Bush	Five Star General	Stealth Radar	Right-handed	Silver Hair	Tomato Juice
James Madison	Chief Diplomat	Stealth Radar	Left-handed	Dark Hair	Cold Coffee
Harry Truman	Chief Diplomat	Decoy Flare	Left-handed	Silver Hair	Spicy Nuts
Justin Trudeau	Supreme Chancellor	Stealth Radar	Right-handed	Silver Hair	Tomato Juice
Richard Nixon	Five Star General	Cryptophone	Right-handed	Silver Hair	Tomato Juice
John Kennedy	Five Star General	Stealth Radar	Right-handed	Blonde Hair	Cold Coffee
Charles de Gaulle	Supreme Chancellor	Stealth Radar	Right-handed	Blonde Hair	Tomato Juice
George Washington	Five Star General	Cryptophone	Right-handed	Blonde Hair	Tomato Juice
Angela Merkel	Supreme Chancellor	Cryptophone	Right-handed	Dark Hair	Spicy Nuts
Margaret Thatcher	Supreme Chancellor	Laser Pointer	Left-handed	Dark Hair	Tomato Juice
Teddy Roosevelt	Chief Diplomat	Decoy Flare	Right-handed	Blonde Hair	Tomato Juice
Woodrow Wilson	Prime Minister	Cryptophone	Right-handed	Blonde Hair	Tomato Juice
Winston Churchill	Prime Minister	Laser Pointer	Right-handed	Dark Hair	Tomato Juice
Gerald Ford	Chief Diplomat	Cryptophone	Left-handed	Blonde Hair	Cold Coffee

CLUE 1 Addition

The Security Detail counted all the extra luggage loaded into the main cargo hold. By adding up the crates from each delegation, they found a secret logbook hidden inside a suitcase.

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

The diagram shows two rows of boxes representing a 2D array. The top row has 18 boxes, and the bottom row has 15 boxes. Some boxes are highlighted in orange and labeled with 'T'.

Top row (18 boxes):

- Box 1: Orange, labeled 'T' (index 7651)
- Box 2: White (index 2662)
- Box 3: White (index 5498)
- Box 4: White (index 2882)
- Box 5: White (index 4230)
- Box 6: White (index 2719)
- Box 7: White (index 2719)
- Box 8: White (index 8431)
- Box 9: White (index 4230)
- Box 10: White (index 2234)
- Box 11: White (index 8808)
- Box 12: White (index 3760)
- Box 13: White (index 5498)
- Box 14: White (index 8474)
- Box 15: White (index 2234)
- Box 16: White (index 3760)
- Box 17: Orange, labeled 'T' (index 7651)

Bottom row (15 boxes):

- Box 1: White (index 2662)
- Box 2: White (index 8431)
- Box 3: White (index 2882)
- Box 4: White (index 5498)
- Box 5: White (index 8474)
- Box 6: Orange, labeled 'T' (index 7651)
- Box 7: White (index 5498)
- Box 8: White (index 8431)
- Box 9: White (index 2719)
- Box 10: Orange, labeled 'T' (index 7651)
- Box 11: White (index 2662)
- Box 12: White (index 5408)
- Box 13: White (index 8431)
- Box 14: White (index 8808)
- Box 15: White (index 8431)

$$4051 + 3600 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$1216 + 1446 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2281 + 1949 = \boxed{} \rightarrow \boxed{}$$

$$2162 + 1598 = \boxed{} \rightarrow \boxed{0}$$

$950 + 1932 = \boxed{} \rightarrow \mathbf{V}$

$$5468 + 3006 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$3342 + 5466 = \boxed{} \rightarrow \mathbf{D}$

$$3378 + 2120 = \boxed{} \rightarrow \mathbf{E}$$

$1467 + 1252 = \boxed{} \rightarrow \boxed{\text{L}}$

$1530 + 704 = \boxed{} \rightarrow \boxed{\mathbf{N}}$

$$4167 + 4264 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$$2959 + 2449 = \boxed{} \rightarrow \boxed{\text{R}}$$

Scratch space:

CLUE 2 Fractions of a number

Our Flight Attendant sorted the snack trays for the VIP cabin. Only a fraction of the total trays contained the suspect's favorite appetizer, which revealed a key piece of evidence.

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

32 6 38 20 36 20 7 38 19 32 20 29 28 18 38 37 32 6 38

35 38 7 14 35 32 35 29 28 6 32 6 23 18 37 38 37

4/6 of 48 = → **T**

$1/10$ of 200 = $\rightarrow$ **S**

$$2/8 \text{ of } 28 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$2/8 \text{ of } 152 = \boxed{} \rightarrow \boxed{\text{E}}$$

4/6 of 27 = → **N**

$7/8$ of 40 = $\rightarrow$ **R**

4/10 of 70 = → **G**

4/8 of 58 = →

$\frac{1}{5}$ of 185 = $\rightarrow$ **D**

$$2/4 \text{ of } 72 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$\frac{1}{6} \text{ of } 84 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$1/10 \text{ of } 60 = \boxed{} \rightarrow \boxed{\text{H}}$$

$2/4$ of 46 = $\rightarrow$ **A**

$2/6$ of $57 = \boxed{} \rightarrow \boxed{\text{C}}$

Scratch space:

CLUE 3 Order of operations

To crack the password on the security terminal, we had to solve a multi-step diagnostic checklist in the exact order of flight operations. The unlocked screen showed a vital security video.

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

T								T										
10	62	15	34	67	34	56	15	24	10	24	31	67	9	62	15	80	31	47

T			T				T						
10	62	15	10	31	54	77	10	31	32	67	58	24	15

$1 + 3 \times 3 = \square \rightarrow \boxed{\text{T}}$	$7 \times 8 - 9 = \square \rightarrow \boxed{\text{N}}$	$4 \times 12 - 16 = \square \rightarrow \boxed{\text{J}}$
$7 + 9 \times 3 = \square \rightarrow \boxed{\text{S}}$	$7 \times 9 - 5 = \square \rightarrow \boxed{\text{I}}$	$29 + 3 \times 9 = \square \rightarrow \boxed{\text{P}}$
$6 + 7 \times 8 = \square \rightarrow \boxed{\text{H}}$	$9 + 3 \times 2 = \square \rightarrow \boxed{\text{E}}$	$4 + 9 \times 7 = \square \rightarrow \boxed{\text{U}}$
$9 \times 6 - 23 = \square \rightarrow \boxed{\text{O}}$	$11 \times 9 - 19 = \square \rightarrow \boxed{\text{D}}$	$73 + 2 \times 2 = \square \rightarrow \boxed{\text{A}}$
$11 \times 7 - 23 = \square \rightarrow \boxed{\text{M}}$	$9 + 5 \times 3 = \square \rightarrow \boxed{\text{C}}$	$5 \times 4 - 11 = \square \rightarrow \boxed{\text{G}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The crew checked the seating chart, which was organized in equal rows of leather chairs. Multiplying the rows let us calculate the exact cabin position where the thief dropped an item.

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

W															
144	70	15	66	63	27	22	16	8	90	44	16	27	22	66	15

60	40	66	27	22	70	9	16	72	44

$12 \times 12 = \square \rightarrow \boxed{W}$

$3 \times 5 = \square \rightarrow \boxed{F}$

$3 \times 9 = \square \rightarrow \boxed{N}$

$4 \times 11 = \square \rightarrow \boxed{R}$

$10 \times 6 = \square \rightarrow \boxed{B}$

$12 \times 6 = \square \rightarrow \boxed{I}$

$7 \times 9 = \square \rightarrow \boxed{U}$

$6 \times 11 = \square \rightarrow \boxed{O}$

$7 \times 10 = \square \rightarrow \boxed{E}$

$9 \times 10 = \square \rightarrow \boxed{T}$

$2 \times 11 = \square \rightarrow \boxed{D}$

$8 \times 2 = \square \rightarrow \boxed{A}$

$3 \times 3 = \square \rightarrow \boxed{H}$

$8 \times 1 = \square \rightarrow \boxed{S}$

$4 \times 10 = \square \rightarrow \boxed{L}$

Scratch space:

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

The navigator analyzed the fuel tanks. Only a fraction of the remaining fuel was used during the brief detour, pointing us directly to the suspect's final escape route.

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:

$2/5 \text{ of } 25 = \boxed{}$

$3/5 \text{ of } 20 = \boxed{}$

$5/10 \text{ of } 22 = \boxed{}$

$5/10 \text{ of } 18 = \boxed{}$

$1/5 \text{ of } 20 = \boxed{}$

$2/10 \text{ of } 15 = \boxed{}$

$4/8 \text{ of } 12 = \boxed{}$

$1/10 \text{ of } 50 = \boxed{}$

$2/10 \text{ of } 5 = \boxed{}$

$7/8 \text{ of } 8 = \boxed{}$

$2/4 \text{ of } 16 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain ordered a commander in chief bypass, then blinded the camera with a laser pointer.
2. The villain signed a five star general command, then scrambled the line with a cryptophone.
3. The villain activated a supreme chancellor clearance, then unlocked the vault with a golden key.
4. The villain ordered a commander in chief bypass, then confused the guard with a decoy flare.
5. The villain activated a supreme chancellor clearance, then slipped past the cabin using stealth radar.
6. The villain used the chief diplomat pass, then unlocked the vault with a golden key.
7. The villain signed a five star general command, then slipped past the cabin using stealth radar.
8. The villain ordered a commander in chief bypass, then scrambled the line with a cryptophone.
9. The villain activated a supreme chancellor clearance, then confused the guard with a decoy flare.
10. The villain issued a prime minister override, then scrambled the line with a cryptophone.
11. The villain used the chief diplomat pass, then confused the guard with a decoy flare.
12. The villain activated a supreme chancellor clearance, then scrambled the line with a cryptophone.

Answer Key

The Air Force One Capers

Culprit: George Washington

Five Star General · Cryptophone · Right-handed · Blonde Hair · Tomato Juice

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

Clue 1 (Addition): "THE VILLAIN DOES NOT HAVE STEALTH RADAR"

$4051 + 3600 = 7651$ (T) · $1216 + 1446 = 2662$ (H) · $2281 + 1949 = 4230$ (I) · $2162 + 1598 = 3760$ (O) · $950 + 1932 = 2882$ (V) · $5468 + 3006 = 8474$ (S) · $3342 + 5466 = 8808$ (D) · $3378 + 2120 = 5498$ (E) · $1467 + 1252 = 2719$ (L) · $1530 + 704 = 2234$ (N) · $4167 + 4264 = 8431$ (A) · $2959 + 2449 = 5408$ (R)

Clue 2 (Fractions of a number): "THE SUSPECT SIGNED THE REPORT RIGHT HANDED"

$4/6$ of 48 = 32 (T) · $1/10$ of 200 = 20 (S) · $2/8$ of 28 = 7 (P) · $2/8$ of 152 = 38 (E) · $4/6$ of 27 = 18 (N) · $7/8$ of 40 = 35 (R) · $4/10$ of 70 = 28 (G) · $4/8$ of 58 = 29 (I) · $1/5$ of 185 = 37 (D) · $2/4$ of 72 = 36 (U) · $1/6$ of 84 = 14 (O) · $1/10$ of 60 = 6 (H) · $2/4$ of 46 = 23 (A) · $2/6$ of 57 = 19 (C)

Clue 3 (Order of operations): "THE SUSPECT COUGHED ON THE TOMATO JUICE"

$1 + 3 \times 3 = 10$ (T) · $7 \times 8 - 9 = 47$ (N) · $4 \times 12 - 16 = 32$ (J) · $7 + 9 \times 3 = 34$ (S) · $7 \times 9 - 5 = 58$ (I) · $29 + 3 \times 9 = 56$ (P) · $6 + 7 \times 8 = 62$ (H) · $9 + 3 \times 2 = 15$ (E) · $4 + 9 \times 7 = 67$ (U) · $9 \times 6 - 23 = 31$ (O) · $11 \times 9 - 19 = 80$ (D) · $73 + 2 \times 2 = 77$ (A) · $11 \times 7 - 23 = 54$ (M) · $9 + 5 \times 3 = 24$ (C) · $5 \times 4 - 11 = 9$ (G)

Clue 4 (Multiplication facts (1-12)): "WE FOUND A STRAND OF BLONDE HAIR"

$12 \times 12 = 144$ (W) · $3 \times 5 = 15$ (F) · $3 \times 9 = 27$ (N) · $4 \times 11 = 44$ (R) · $10 \times 6 = 60$ (B) · $12 \times 6 = 72$ (I) · $7 \times 9 = 63$ (U) · $6 \times 11 = 66$ (O) · $7 \times 10 = 70$ (E) · $9 \times 10 = 90$ (T) · $2 \times 11 = 22$ (D) · $8 \times 2 = 16$ (A) · $3 \times 3 = 9$ (H) · $8 \times 1 = 8$ (S) · $4 \times 10 = 40$ (L)

Clue 5 (Fractions of a number): surviving statement is box 2 → George Washington

$2/5$ of 25 = 10 · $3/5$ of 20 = 12 · $5/10$ of 22 = 11 · $5/10$ of 18 = 9 · $1/5$ of 20 = 4 · $2/10$ of 15 = 3 · $4/8$ of 12 = 6 · $1/10$ of 50 = 5 · $2/10$ of 5 = 1 · $7/8$ of 8 = 7 · $2/4$ of 16 = 8