



The Case of the Antel Clones

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

The sneaky Antel has created a whole bunch of clones to steal all the cream puffs in Forest Town! Sheriff Labrador, Officer Dobie, and Officer Papillon are on the case. They must find the real clone culprit before the pastries vanish forever!

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 Antel clone is _____

Possible suspects

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

NAME	MAIN ESCAPE POWER	GADGET TOOL	HANDEDNESS	HEAD TUFT COLOR	SECRET WEAKNESS
Shiny Antel	Mega Jump	Sonic Screech	Left pawed glove	Brown head tuft	Bright flashlight beams
Calm Antel	Laser Eyes	Magnet Glove	Right pawed glove	Brown head tuft	Smelly durian fruit
Sleepy Antel	Invisibility	Magnet Glove	Right pawed glove	Brown head tuft	Squeaky dog toys
Quick Antel	Hologram Trick	Magnet Glove	Right pawed glove	Brown head tuft	Squeaky dog toys
Happy Antel	Mega Jump	Glue Cannon	Right pawed glove	Black head tuft	Bright flashlight beams
Crafty Antel	Hologram Trick	High Kick	Left pawed glove	Brown head tuft	Smelly durian fruit
Goofy Antel	Laser Eyes	Sonic Screech	Right pawed glove	Black head tuft	Smelly durian fruit
Speedy Antel	Super Speed	Smoke Bomb	Right pawed glove	Brown head tuft	Bright flashlight beams
Brave Antel	Invisibility	Glue Cannon	Right pawed glove	Brown head tuft	Smelly durian fruit
Smart Antel	Invisibility	Glue Cannon	Left pawed glove	Black head tuft	Bright flashlight beams
Fancy Antel	Laser Eyes	High Kick	Left pawed glove	Brown head tuft	Squeaky dog toys
Daring Antel	Invisibility	Glue Cannon	Left pawed glove	Black head tuft	Squeaky dog toys
Sneaky Antel	Mega Jump	Sonic Screech	Right pawed glove	Brown head tuft	Bright flashlight beams
Clumsy Antel	Laser Eyes	Magnet Glove	Right pawed glove	Gray head tuft	Smelly durian fruit
Strong Antel	Invisibility	Glue Cannon	Left pawed glove	Gray head tuft	Squeaky dog toys
Fluffy Antel	Super Speed	Smoke Bomb	Right pawed glove	Brown head tuft	Smelly durian fruit
Tricky Antel	Super Speed	Glue Cannon	Right pawed glove	Black head tuft	Squeaky dog toys
Chubby Antel	Hologram Trick	Magnet Glove	Right pawed glove	Gray head tuft	Squeaky dog toys
Rowdy Antel	Super Speed	Glue Cannon	Right pawed glove	Brown head tuft	Bright flashlight beams
Silly Antel	Super Speed	High Kick	Right pawed glove	Brown head tuft	Smelly durian fruit
Tiny Antel	Mega Jump	Magnet Glove	Right pawed glove	Brown head tuft	Smelly durian fruit

CLUE 1
Fractions of a number

Sheriff Labrador needs to find the fraction of stolen donuts that still have sprinkles. He checks the bakery tray to count them.

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

T																			
3	16	36	7	18	7	4	36	24	3	9	22	9	13	15	3	18	7	36	
37	7	38	15	30	36	28	15	38	28										

$3/4 \text{ of } 4 = \square \rightarrow \text{ T }$

$6/10 \text{ of } 15 = \square \rightarrow \text{ D }$

$4/8 \text{ of } 44 = \square \rightarrow \text{ I }$

$1/2 \text{ of } 8 = \square \rightarrow \text{ P }$

$1/4 \text{ of } 148 = \square \rightarrow \text{ A }$

$3/6 \text{ of } 26 = \square \rightarrow \text{ N }$

$1/4 \text{ of } 72 = \square \rightarrow \text{ U }$

$2/5 \text{ of } 60 = \square \rightarrow \text{ C }$

$4/5 \text{ of } 20 = \square \rightarrow \text{ H }$

$7/8 \text{ of } 8 = \square \rightarrow \text{ S }$

$2/5 \text{ of } 90 = \square \rightarrow \text{ E }$

$5/6 \text{ of } 36 = \square \rightarrow \text{ K }$

$2/4 \text{ of } 56 = \square \rightarrow \text{ B }$

$1/2 \text{ of } 30 = \square \rightarrow \text{ O }$

$3/6 \text{ of } 76 = \square \rightarrow \text{ M }$

Scratch space:

CLUE 2
Order of operations

Officer Dobie is solving a security code on the safe. He must solve the steps in the exact order to unlock the fingerprint scanner.

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

T															
13	51	53	45	57	27	27	25	57	77	18	53	25	60	6	25
				T											
60	57	80	51	13	10	25	18	53	8	80	27	55	45	53	

$6 \times 4 - 11 = \square \rightarrow$ T	$27 + 3 \times 8 = \square \rightarrow$ H	$46 + 7 \times 2 = \square \rightarrow$ R
$8 \times 10 - 25 = \square \rightarrow$ O	$13 + 7 \times 2 = \square \rightarrow$ L	$43 + 2 \times 5 = \square \rightarrow$ E
$9 \times 4 - 30 = \square \rightarrow$ S	$2 + 4 \times 2 = \square \rightarrow$ P	$8 + 2 \times 5 = \square \rightarrow$ W
$21 + 4 \times 6 = \square \rightarrow$ V	$12 \times 6 - 15 = \square \rightarrow$ I	$10 \times 5 - 25 = \square \rightarrow$ A
$21 + 7 \times 8 = \square \rightarrow$ N	$8 \times 12 - 16 = \square \rightarrow$ G	$6 \times 3 - 10 = \square \rightarrow$ D

Scratch space:

CLUE 3

Multiplication facts (1-12)

Officer Papillon counts the clone footprints in the mud. They are grouped in equal rows near the fence.

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

S																
120	11	30	55	55	22	70	10	25	88	80	100	4	25	10	88	27

S				S				
120	27	54	60	120	27	110	30	11

$10 \times 12 = \square \rightarrow \boxed{\text{S}}$

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

$5 \times 11 = \square \rightarrow \boxed{\text{L}}$

$11 \times 2 = \square \rightarrow \boxed{\text{Y}}$

$5 \times 5 = \square \rightarrow \boxed{\text{R}}$

$10 \times 11 = \square \rightarrow \boxed{\text{H}}$

$2 \times 2 = \square \rightarrow \boxed{\text{F}}$

$10 \times 1 = \square \rightarrow \boxed{\text{U}}$

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

$11 \times 8 = \square \rightarrow \boxed{\text{I}}$

$8 \times 10 = \square \rightarrow \boxed{\text{A}}$

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

$3 \times 10 = \square \rightarrow \boxed{\text{E}}$

$10 \times 6 = \square \rightarrow \boxed{\text{P}}$

$9 \times 6 = \square \rightarrow \boxed{\text{O}}$

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

Scratch space:

CLUE 4 Rounding

The police radar shows a messy speed reading. Sheriff Labrador rounds the speed to the nearest ten to pinpoint the getaway car.

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

A								A							A	
50	30	370	1300	230	170	500	900	50	2300	3000	4300	1100	3000	230	50	9000
200	900	1100	3000	30	900	500	5000	170	2300							

Round 47 to the nearest ten → **A**

Round 33 to the nearest ten → **B**

Round 467 to the nearest hundred → **H**

Round 174 to the nearest ten → **N**

Round 4,818 to the nearest thousand → **I**

Round 3,170 to the nearest thousand → **T**

Round 1,139 to the nearest hundred → **F**

Round 856 to the nearest hundred → **E**

Round 1,326 to the nearest hundred → **O**

Round 368 to the nearest ten → **R**

Round 214 to the nearest hundred → **L**

Round 4,332 to the nearest hundred → **U**

Round 2,274 to the nearest hundred → **D**

Round 229 to the nearest ten → **W**

Round 8,767 to the nearest thousand → **S**

Scratch space:

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

The officers find a box of dog treats left behind. They share them equally among the police dogs to find out how many are in each bag.

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:

$72 \div 6 = \boxed{}$

$110 \div 10 = \boxed{}$

$18 \div 6 = \boxed{}$

$21 \div 3 = \boxed{}$

$5 \div 1 = \boxed{}$

$36 \div 4 = \boxed{}$

$60 \div 6 = \boxed{}$

$24 \div 12 = \boxed{}$

$42 \div 7 = \boxed{}$

$2 \div 2 = \boxed{}$

$56 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain zoomed past the pastry shop, then stole the metal prize keys.
2. The villain blasted open the cookie vault, then kicked a stack of flour sacks.
3. The villain jumped over the safety fence, then stole the metal prize keys.
4. The villain blasted open the cookie vault, then stole the metal prize keys.
5. The villain projected a fake copy of herself, then dropped a smoky decoy bottle.
6. The villain projected a fake copy of herself, then glued the police cruiser tires.
7. The villain blasted open the cookie vault, then glued the police cruiser tires.
8. The villain projected a fake copy of herself, then kicked a stack of flour sacks.
9. The villain vanished into thin air, then kicked a stack of flour sacks.
10. The villain projected a fake copy of herself, then shrieked to scare the guards.
11. The villain zoomed past the pastry shop, then kicked a stack of flour sacks.
12. The villain vanished into thin air, then glued the police cruiser tires.

Answer Key

The Case of the Antel Clones

Culprit: Calm Antel

Laser Eyes · Magnet Glove · Right pawed glove · Brown head tuft · Smelly durian fruit

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE SUSPECT DID NOT USE A SMOKE BOMB"

$\frac{3}{4}$ of 4 = 3 (T) · $\frac{6}{10}$ of 15 = 9 (D) · $\frac{4}{8}$ of 44 = 22 (I) · $\frac{1}{2}$ of 8 = 4 (P) · $\frac{1}{4}$ of 148 = 37 (A) · $\frac{3}{6}$ of 26 = 13 (N) · $\frac{1}{4}$ of 72 = 18 (U) · $\frac{2}{5}$ of 60 = 24 (C) · $\frac{4}{5}$ of 20 = 16 (H) · $\frac{7}{8}$ of 8 = 7 (S) · $\frac{2}{5}$ of 90 = 36 (E) · $\frac{5}{6}$ of 36 = 30 (K) · $\frac{2}{4}$ of 56 = 28 (B) · $\frac{1}{2}$ of 30 = 15 (O) · $\frac{3}{6}$ of 76 = 38 (M)

Clue 2 (Order of operations): "THE VILLAIN WEARS A RIGHT PAWED GLOVE"

$6 \times 4 - 11 = 13$ (T) · $27 + 3 \times 8 = 51$ (H) · $46 + 7 \times 2 = 60$ (R) · $8 \times 10 - 25 = 55$ (O) · $13 + 7 \times 2 = 27$ (L) · $43 + 2 \times 5 = 53$ (E) · $9 \times 4 - 30 = 6$ (S) · $2 + 4 \times 2 = 10$ (P) · $8 + 2 \times 5 = 18$ (W) · $21 + 4 \times 6 = 45$ (V) · $12 \times 6 - 15 = 57$ (I) · $10 \times 5 - 25 = 25$ (A) · $21 + 7 \times 8 = 77$ (N) · $8 \times 12 - 16 = 80$ (G) · $6 \times 3 - 10 = 8$ (D)

Clue 3 (Multiplication facts (1-12)): "SMELLY DURIAN FRUIT STOPS THEM"

$10 \times 12 = 120$ (S) · $7 \times 10 = 70$ (D) · $5 \times 11 = 55$ (L) · $11 \times 2 = 22$ (Y) · $5 \times 5 = 25$ (R) · $10 \times 11 = 110$ (H) · $2 \times 2 = 4$ (F) · $10 \times 1 = 10$ (U) · $10 \times 10 = 100$ (N) · $11 \times 8 = 88$ (I) · $8 \times 10 = 80$ (A) · $11 \times 1 = 11$ (M) · $3 \times 10 = 30$ (E) · $10 \times 6 = 60$ (P) · $9 \times 6 = 54$ (O) · $3 \times 9 = 27$ (T)

Clue 4 (Rounding): "A BROWN HEAD TUFT WAS LEFT BEHIND"

Round 47 to the nearest ten = 50 (A) · Round 33 to the nearest ten = 30 (B) · Round 467 to the nearest hundred = 500 (H) · Round 174 to the nearest ten = 170 (N) · Round 4,818 to the nearest thousand = 5000 (I) · Round 3,170 to the nearest thousand = 3000 (T) · Round 1,139 to the nearest hundred = 1100 (F) · Round 856 to the nearest hundred = 900 (E) · Round 1,326 to the nearest hundred = 1300 (O) · Round 368 to the nearest ten = 370 (R) · Round 214 to the nearest hundred = 200 (L) · Round 4,332 to the nearest hundred = 4300 (U) · Round 2,274 to the nearest hundred = 2300 (D) · Round 229 to the nearest ten = 230 (W) · Round 8,767 to the nearest thousand = 9000 (S)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Calm Antel

$72 \div 6 = 12$ · $110 \div 10 = 11$ · $18 \div 6 = 3$ · $21 \div 3 = 7$ · $5 \div 1 = 5$ · $36 \div 4 = 9$ · $60 \div 6 = 10$ · $24 \div 12 = 2$ · $42 \div 7 = 6$ · $2 \div 2 = 1$ · $56 \div 7 = 8$