



The Great Golden Acorn Heist

Grade 3 math · Multiplication, Rounding, Addition, Subtraction, Division · Reading level grades 3-4

Detective: _____ Date: _____

Someone snuck into the Pinecone Valley Wildlife Center and snatched the legendary Golden Acorn. Detective Paw needs your help examining evidence to catch the culprit before the annual Forest Feast.

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 Masked Bandit is _____

Possible suspects

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

NAME	SKILL	GADGET	DOMINANT PAW	FUR TYPE	DISTRACTION
Rosie Redpanda	Echo Sensing	Vine Whip	Left Pawed	Spiky Fur	Shiny Mirrors
Milo Otter	Camouflage Skin	Mud Shield	Left Pawed	Sleek Fur	Squeaky Toys
Sammy Squirrel	Echo Sensing	Mud Shield	Left Pawed	Fluffy Fur	Squeaky Toys
Penny Porcupine	Speed Burrowing	Acorn Blaster	Left Pawed	Sleek Fur	Shiny Mirrors
Chester Chipmunk	Camouflage Skin	Acorn Blaster	Right Pawed	Spiky Fur	Shiny Mirrors
Jasper Jackal	Night Vision	Acorn Blaster	Left Pawed	Spiky Fur	Crunchy Treats
Hank Hedgehog	Echo Sensing	Berry Cannon	Left Pawed	Spiky Fur	Shiny Mirrors
Sasha Skunk	Speed Burrowing	Acorn Blaster	Right Pawed	Fluffy Fur	Squeaky Toys
Felix Ferret	Night Vision	Feather Glider	Right Pawed	Spiky Fur	Shiny Mirrors
Maya Moose	Echo Sensing	Mud Shield	Left Pawed	Spiky Fur	Shiny Mirrors
Daisy Deer	Night Vision	Feather Glider	Right Pawed	Fluffy Fur	Crunchy Treats
Oliver Owl	Echo Sensing	Mud Shield	Left Pawed	Fluffy Fur	Shiny Mirrors
Gideon Beaver	Camouflage Skin	Vine Whip	Left Pawed	Spiky Fur	Shiny Mirrors
Willow Wolf	Super Hopping	Berry Cannon	Right Pawed	Spiky Fur	Crunchy Treats
Hazel Hare	Super Hopping	Acorn Blaster	Right Pawed	Sleek Fur	Squeaky Toys
Piper Possum	Camouflage Skin	Acorn Blaster	Left Pawed	Spiky Fur	Shiny Mirrors
Rocco Raccoon	Speed Burrowing	Mud Shield	Right Pawed	Spiky Fur	Crunchy Treats
Toby Turtle	Camouflage Skin	Acorn Blaster	Right Pawed	Sleek Fur	Shiny Mirrors
Barnaby Bear	Super Hopping	Feather Glider	Left Pawed	Sleek Fur	Shiny Mirrors
Bruno Lynx	Night Vision	Feather Glider	Right Pawed	Spiky Fur	Squeaky Toys
Quincy Quail	Speed Burrowing	Mud Shield	Left Pawed	Fluffy Fur	Crunchy Treats

CLUE 1

Multiplication facts (1-12)

Detective Paw counts equal rows of animal tracks leading away from the museum.

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

T																T
100	5	24	22	54	64	64	70	54	30	45	56	24	120	30	56	100
16	120	24	70	55	24	108	108	32	6	70	30	30	56	30		

$10 \times 10 = \square \rightarrow \text{T}$

$8 \times 4 = \square \rightarrow \text{Y}$

$11 \times 2 = \square \rightarrow \text{V}$

$5 \times 1 = \square \rightarrow \text{H}$

$8 \times 8 = \square \rightarrow \text{L}$

$10 \times 7 = \square \rightarrow \text{A}$

$2 \times 8 = \square \rightarrow \text{U}$

$2 \times 3 = \square \rightarrow \text{C}$

$5 \times 11 = \square \rightarrow \text{B}$

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

$9 \times 12 = \square \rightarrow \text{R}$

$6 \times 4 = \square \rightarrow \text{E}$

$9 \times 6 = \square \rightarrow \text{I}$

$9 \times 5 = \square \rightarrow \text{D}$

$8 \times 7 = \square \rightarrow \text{O}$

$10 \times 3 = \square \rightarrow \text{N}$

Scratch space:

CLUE 2
Rounding

The forest motion sensor display rounds all distances to the nearest ten yards.

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

T									T								T	
9000	30	8000	3000	90	3000	900	8000	2000	9000	70	8000	4000	9000	80	70	8000	4000	9000
900	80	6000	900	5000	50	20	9000	400	20	9000	30	8000	3000	80	4000	8000		

Round 9,363 to the nearest thousand → **T**

Round 1,672 to the nearest thousand → **C**

Round 2,945 to the nearest thousand → **S**

Round 6,167 to the nearest thousand → **W**

Round 7,862 to the nearest thousand → **E**

Round 91 to the nearest ten → **U**

Round 4,952 to the nearest thousand → **R**

Round 66 to the nearest ten → **L**

Round 51 to the nearest ten → **I**

Round 24 to the nearest ten → **N**

Round 26 to the nearest ten → **H**

Round 80 to the nearest ten → **A**

Round 3,774 to the nearest thousand → **F**

Round 391 to the nearest hundred → **O**

Round 877 to the nearest hundred → **P**

Scratch space:

CLUE 3 Addition

Ranger Rick adds up all the dropped acorns found in the northern and southern glades.

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

T														T						
895	779	281	266	759	429	429	976	759	441	289	976	294	294	895	650	552	552	281	940	

872	383	294	779	759	441	383	345	759	973	973	650	973	294

$563 + 332 = \square \rightarrow \text{T}$	$298 + 642 = \square \rightarrow \text{D}$	$153 + 192 = \square \rightarrow \text{M}$
$95 + 171 = \square \rightarrow \text{V}$	$512 + 360 = \square \rightarrow \text{B}$	$249 + 303 = \square \rightarrow \text{P}$
$212 + 217 = \square \rightarrow \text{L}$	$103 + 186 = \square \rightarrow \text{W}$	$183 + 98 = \square \rightarrow \text{E}$
$223 + 218 = \square \rightarrow \text{N}$	$131 + 252 = \square \rightarrow \text{Y}$	$401 + 249 = \square \rightarrow \text{O}$
$281 + 498 = \square \rightarrow \text{H}$	$529 + 447 = \square \rightarrow \text{A}$	$455 + 518 = \square \rightarrow \text{R}$
$196 + 98 = \square \rightarrow \text{S}$	$466 + 293 = \square \rightarrow \text{I}$	

Scratch space:

CLUE 4 Subtraction

The team compares total food supplies before and after the heist to find what is missing.

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

T																	
886	714	521	465	848	521	772	521	848	263	772	886	148	801	772	521	471	

465	221	801	568	440	497	111	160

1058 - 172 = → T	773 - 302 = → D	406 - 185 = → P
652 - 187 = → S	618 - 178 = → Y	855 - 54 = → I
763 - 195 = → K	836 - 122 = → H	822 - 325 = → F
1005 - 233 = → N	866 - 345 = → E	332 - 69 = → O
181 - 21 = → R	233 - 85 = → A	906 - 58 = → C
392 - 281 = → U		

Scratch space:

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

Detective Paw splits recovered treats equally among search teams to check the leftovers.

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:

$42 \div 7 = \boxed{}$

$88 \div 8 = \boxed{}$

$10 \div 2 = \boxed{}$

$40 \div 4 = \boxed{}$

$6 \div 6 = \boxed{}$

$24 \div 3 = \boxed{}$

$20 \div 5 = \boxed{}$

$14 \div 2 = \boxed{}$

$24 \div 8 = \boxed{}$

$99 \div 11 = \boxed{}$

$10 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain used speed burrowing to dig under the wall, then escaped through the air on a feather glider.
2. The villain used super hopping to leap over the fence, then blocked the cameras with a mud shield.
3. The villain used super hopping to leap over the fence, then swung across the river using a vine whip.
4. The villain used camouflage skin to blend into the trees, then covered the tracks with a berry cannon.
5. The villain used echo sensing to find the vault, then swung across the river using a vine whip.
6. The villain used camouflage skin to blend into the trees, then blasted past guards with an acorn blaster.
7. The villain used super hopping to leap over the fence, then escaped through the air on a feather glider.
8. The villain used speed burrowing to dig under the wall, then swung across the river using a vine whip.
9. The villain used night vision to sneak in the dark, then blocked the cameras with a mud shield.
10. The villain used speed burrowing to dig under the wall, then blocked the cameras with a mud shield.
11. The villain used camouflage skin to blend into the trees, then swung across the river using a vine whip.
12. The villain used echo sensing to find the vault, then blocked the cameras with a mud shield.

Answer Key

The Great Golden Acorn Heist

Culprit: Maya Moose

Echo Sensing · Mud Shield · Left Pawed · Spiky Fur · Shiny Mirrors

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

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

$10 \times 10 = 100$ (T) · $8 \times 4 = 32$ (Y) · $11 \times 2 = 22$ (V) · $5 \times 1 = 5$ (H) · $8 \times 8 = 64$ (L) · $10 \times 7 = 70$ (A) · $2 \times 8 = 16$ (U) · $2 \times 3 = 6$ (C) · $5 \times 11 = 55$ (B) · $10 \times 12 = 120$ (S) · $9 \times 12 = 108$ (R) · $6 \times 4 = 24$ (E) · $9 \times 6 = 54$ (I) · $9 \times 5 = 45$ (D) · $8 \times 7 = 56$ (O) · $10 \times 3 = 30$ (N)

Clue 2 (Rounding): "THE SUSPECT LEFT A LEFT PAW PRINT ON THE SAFE"

Round 9,363 to the nearest thousand = 9000 (T) · Round 1,672 to the nearest thousand = 2000 (C) · Round 2,945 to the nearest thousand = 3000 (S) · Round 6,167 to the nearest thousand = 6000 (W) · Round 7,862 to the nearest thousand = 8000 (E) · Round 91 to the nearest ten = 90 (U) · Round 4,952 to the nearest thousand = 5000 (R) · Round 66 to the nearest ten = 70 (L) · Round 51 to the nearest ten = 50 (I) · Round 24 to the nearest ten = 20 (N) · Round 26 to the nearest ten = 30 (H) · Round 80 to the nearest ten = 80 (A) · Round 3,774 to the nearest thousand = 4000 (F) · Round 391 to the nearest hundred = 400 (O) · Round 877 to the nearest hundred = 900 (P)

Clue 3 (Addition): "THE VILLAIN WAS STOPPED BY SHINY MIRRORS"

$563 + 332 = 895$ (T) · $298 + 642 = 940$ (D) · $153 + 192 = 345$ (M) · $95 + 171 = 266$ (V) · $512 + 360 = 872$ (B) · $249 + 303 = 552$ (P) · $212 + 217 = 429$ (L) · $103 + 186 = 289$ (W) · $183 + 98 = 281$ (E) · $223 + 218 = 441$ (N) · $131 + 252 = 383$ (Y) · $401 + 249 = 650$ (O) · $281 + 498 = 779$ (H) · $529 + 447 = 976$ (A) · $455 + 518 = 973$ (R) · $196 + 98 = 294$ (S) · $466 + 293 = 759$ (I)

Clue 4 (Subtraction): "THE SCENE CONTAINED SPIKY FUR"

$1058 - 172 = 886$ (T) · $773 - 302 = 471$ (D) · $406 - 185 = 221$ (P) · $652 - 187 = 465$ (S) · $618 - 178 = 440$ (Y) · $855 - 54 = 801$ (I) · $763 - 195 = 568$ (K) · $836 - 122 = 714$ (H) · $822 - 325 = 497$ (F) · $1005 - 233 = 772$ (N) · $866 - 345 = 521$ (E) · $332 - 69 = 263$ (O) · $181 - 21 = 160$ (R) · $233 - 85 = 148$ (A) · $906 - 58 = 848$ (C) · $392 - 281 = 111$ (U)

Clue 5 (Division facts (1-12)): surviving statement is box 12 → Maya Moose

$42 \div 7 = 6$ · $88 \div 8 = 11$ · $10 \div 2 = 5$ · $40 \div 4 = 10$ · $6 \div 6 = 1$ · $24 \div 3 = 8$ · $20 \div 5 = 4$ · $14 \div 2 = 7$ · $24 \div 8 = 3$ · $99 \div 11 = 9$ · $10 \div 5 = 2$