



The Case of the Snatched Egg Keeper

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

Detective: _____ Date: _____

At dawn the Egg Keeper went missing from Thunder Ridge, and a trail of muddy dino tracks led straight past the nests. Only one of the dinosaurs at the dig is the Bone Bandit. Use the clues, ranger, and crack the case.

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 Bone Bandit is _____

Possible suspects

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

NAME	DINO KIND	SPECIAL TRICK	CREST	SCALE COLOR	WEAK SPOT
Fern	Stegosaurus	Super Sniff	Frilled	Blue	Ticklish Tail
Ziggy	Pteranodon	Mud Splash	Frilled	Brown	Ticklish Tail
Bolt	Tyrannosaurus	Night Vision	Plain	Green	Ticklish Tail
Bronto	Triceratops	Night Vision	Frilled	Brown	Sore Tooth
Tilly	Tyrannosaurus	Super Sniff	Plain	Blue	Ticklish Tail
Dottie	Velociraptor	Night Vision	Plain	Green	Sore Tooth
Dax	Triceratops	Mud Splash	Plain	Green	Sore Tooth
Vela	Triceratops	Mud Splash	Frilled	Green	Sore Tooth
Nessa	Velociraptor	Mud Splash	Plain	Brown	Sore Tooth
Ridge	Stegosaurus	Night Vision	Frilled	Blue	Itchy Feet
Chomp	Tyrannosaurus	Mud Splash	Plain	Green	Ticklish Tail
Clawdia	Pteranodon	Mud Splash	Frilled	Green	Ticklish Tail
Mossy	Pteranodon	Super Sniff	Plain	Green	Ticklish Tail
Petra	Velociraptor	Roar Blast	Plain	Green	Sore Tooth
Gizmo	Stegosaurus	Roar Blast	Plain	Green	Itchy Feet
Spike	Pteranodon	Super Sniff	Plain	Green	Itchy Feet
Pippa	Pteranodon	Burrow Dig	Frilled	Brown	Ticklish Tail
Terra	Velociraptor	Burrow Dig	Plain	Green	Sore Tooth
Sandy	Stegosaurus	Super Sniff	Frilled	Green	Ticklish Tail
Stomper	Velociraptor	Night Vision	Plain	Green	Itchy Feet
Trixie	Triceratops	Roar Blast	Plain	Green	Sore Tooth

CLUE 1 Rounding

The big radar at camp only shows footprint sizes rounded to the nearest ten. Round each muddy track to spot the Bone Bandit's heavy steps.

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

T															T
140000	3100000	2800	200000	310000	20	20	2000	310000	300000	14000	2000	300000	300000	30	140000
300	70	500	500	30	70000	500000	310000	2800000							

Round 141,473 to the nearest ten thousand → **T**

Round 2,844 to the nearest hundred → **E**

Round 19 to the nearest ten → **L**

Round 301 to the nearest hundred → **B**

Round 13,536 to the nearest thousand → **C**

Round 29 to the nearest ten → **O**

Round 1,896 to the nearest thousand → **A**

Round 305,292 to the nearest ten thousand → **I**

Round 2,769,358 to the nearest hundred thousand → **G**

Round 487,359 to the nearest hundred thousand → **D**

Round 179,554 to the nearest hundred thousand → **V**

Round 3,074,684 to the nearest hundred thousand → **H**

Round 319,886 to the nearest hundred thousand → **N**

Round 68,258 to the nearest ten thousand → **W**

Round 525 to the nearest hundred → **R**

Round 66 to the nearest ten → **U**

Scratch space:

CLUE 2 Addition

The thief dropped loose bones in two crates by the nests. Add up every bone to learn one fact about the bandit.

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

A									A		A					
2060	2292	6740	8539	9596	7872	4543	4543	4543	2060	2292	2060	6598	4876	2060	6740	9596

		A	
2065	7872	2060	6547

1273 + 787 = → A	2371 + 5501 = → E	3084 + 1459 = → S
1123 + 1169 = → W	4288 + 4251 = → T	4130 + 2468 = → P
4331 + 2409 = → I	3855 + 2692 = → D	4335 + 5261 = → N
740 + 1325 = → H	1690 + 3186 = → L	

Scratch space:

CLUE 3
Subtraction

Eggs are missing from the Keeper's nest. Subtract what is left from what should be there to uncover the next clue.

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

A																	
2847	6052	8730	6117	1505	1782	5862	6117	7856	1782	4643	4643	6117	5862	4273	7158	4273	4756

4756	8730	5862	4140	4273	8730	8730	4273	4643

$6029 - 3182 = \boxed{} \rightarrow \boxed{\text{A}}$

$6428 - 4646 = \boxed{} \rightarrow \boxed{\text{C}}$

$10639 - 4587 = \boxed{} \rightarrow \boxed{\text{L}}$

$5511 - 4006 = \boxed{} \rightarrow \boxed{\text{D}}$

$5318 - 562 = \boxed{} \rightarrow \boxed{\text{S}}$

$5092 - 819 = \boxed{} \rightarrow \boxed{\text{T}}$

$8631 - 4491 = \boxed{} \rightarrow \boxed{\text{E}}$

$6829 - 2186 = \boxed{} \rightarrow \boxed{\text{H}}$

$9301 - 3439 = \boxed{} \rightarrow \boxed{\text{R}}$

$7363 - 1246 = \boxed{} \rightarrow \boxed{\text{U}}$

$12365 - 4509 = \boxed{} \rightarrow \boxed{\text{N}}$

$11834 - 4676 = \boxed{} \rightarrow \boxed{\text{I}}$

$10082 - 1352 = \boxed{} \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The nests sit in neat rows across the dig. Multiply the rows by the nests in each one to crack this clue.

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

A								A				A						
54	121	22	5	5	7	14	15	54	48	5	48	54	30	4	30	20	44	5

		A			
20	22	54	15	25	14

$6 \times 9 = \square \rightarrow$ A	$2 \times 11 = \square \rightarrow$ R	$5 \times 6 = \square \rightarrow$ Y	$4 \times 5 = \square \rightarrow$ T
$2 \times 7 = \square \rightarrow$ S	$11 \times 4 = \square \rightarrow$ H	$1 \times 5 = \square \rightarrow$ E	$3 \times 5 = \square \rightarrow$ C
$6 \times 8 = \square \rightarrow$ L	$7 \times 1 = \square \rightarrow$ N	$1 \times 4 = \square \rightarrow$ B	
$11 \times 11 = \square \rightarrow$ G	$5 \times 5 = \square \rightarrow$ K		

Scratch space:

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

Share the leftover dino snacks evenly among the rangers on watch. The even split points you to the last clue.

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:

$40 \div 4 = \boxed{}$

$3 \div 3 = \boxed{}$

$28 \div 7 = \boxed{}$

$45 \div 5 = \boxed{}$

$132 \div 12 = \boxed{}$

$5 \div 1 = \boxed{}$

$96 \div 8 = \boxed{}$

$6 \div 2 = \boxed{}$

$48 \div 8 = \boxed{}$

$10 \div 5 = \boxed{}$

$64 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain charges with three sharp horns, then blasts a loud roar.
2. The villain swoops down from the sky, then digs a fast tunnel.
3. The villain swings a spiky tail, then digs a fast tunnel.
4. The villain charges with three sharp horns, then splashes thick mud.
5. The villain darts in on quick claws, then digs a fast tunnel.
6. The villain swings a spiky tail, then sees in the dark.
7. The villain darts in on quick claws, then sees in the dark.
8. The villain charges with three sharp horns, then sees in the dark.
9. The villain swings a spiky tail, then sniffs out hidden food.
10. The villain darts in on quick claws, then blasts a loud roar.
11. The villain charges with three sharp horns, then sniffs out hidden food.
12. The villain swoops down from the sky, then blasts a loud roar.

Answer Key

The Case of the Snatched Egg Keeper

Culprit: Dottie

Velociraptor · Night Vision · Plain · Green · Sore Tooth

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN CANNOT BURROW DIG"

Round 141,473 to the nearest ten thousand = 140000 (T) · Round 2,844 to the nearest hundred = 2800 (E) · Round 19 to the nearest ten = 20 (L) · Round 301 to the nearest hundred = 300 (B) · Round 13,536 to the nearest thousand = 14000 (C) · Round 29 to the nearest ten = 30 (O) · Round 1,896 to the nearest thousand = 2000 (A) · Round 305,292 to the nearest ten thousand = 310000 (I) · Round 2,769,358 to the nearest hundred thousand = 2800000 (G) · Round 487,359 to the nearest hundred thousand = 500000 (D) · Round 179,554 to the nearest hundred thousand = 200000 (V) · Round 3,074,684 to the nearest hundred thousand = 3100000 (H) · Round 319,886 to the nearest hundred thousand = 300000 (N) · Round 68,258 to the nearest ten thousand = 70000 (W) · Round 525 to the nearest hundred = 500 (R) · Round 66 to the nearest ten = 70 (U)

Clue 2 (Addition): "A WITNESS SAW A PLAIN HEAD"

$1273 + 787 = 2060$ (A) · $2371 + 5501 = 7872$ (E) · $3084 + 1459 = 4543$ (S) · $1123 + 1169 = 2292$ (W) · $4288 + 4251 = 8539$ (T) · $4130 + 2468 = 6598$ (P) · $4331 + 2409 = 6740$ (I) · $3855 + 2692 = 6547$ (D) · $4335 + 5261 = 9596$ (N) · $740 + 1325 = 2065$ (H) · $1690 + 3186 = 4876$ (L)

Clue 3 (Subtraction): "A LOUD CRUNCH HURT ITS SORE TOOTH"

$6029 - 3182 = 2847$ (A) · $6428 - 4646 = 1782$ (C) · $10639 - 4587 = 6052$ (L) · $5511 - 4006 = 1505$ (D) · $5318 - 562 = 4756$ (S) · $5092 - 819 = 4273$ (T) · $8631 - 4491 = 4140$ (E) · $6829 - 2186 = 4643$ (H) · $9301 - 3439 = 5862$ (R) · $7363 - 1246 = 6117$ (U) · $12365 - 4509 = 7856$ (N) · $11834 - 4676 = 7158$ (I) · $10082 - 1352 = 8730$ (O)

Clue 4 (Multiplication facts (1-12)): "A GREEN SCALE LAY BY THE TRACKS"

$6 \times 9 = 54$ (A) · $2 \times 11 = 22$ (R) · $5 \times 6 = 30$ (Y) · $4 \times 5 = 20$ (T) · $2 \times 7 = 14$ (S) · $11 \times 4 = 44$ (H) · $1 \times 5 = 5$ (E) · $3 \times 5 = 15$ (C) · $6 \times 8 = 48$ (L) · $7 \times 1 = 7$ (N) · $1 \times 4 = 4$ (B) · $11 \times 11 = 121$ (G) · $5 \times 5 = 25$ (K)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Dottie

$40 \div 4 = 10$ · $3 \div 3 = 1$ · $28 \div 7 = 4$ · $45 \div 5 = 9$ · $132 \div 12 = 11$ · $5 \div 1 = 5$ · $96 \div 8 = 12$ · $6 \div 2 = 3$ · $48 \div 8 = 6$ · $10 \div 5 = 2$ · $64 \div 8 = 8$