Case of the Missing Egg Keeper

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

Detective: _____ **Date:** _____

Someone snuck into Thunder Valley last night and carried off the Egg Keeper, the ranger who guards the rarest dino eggs. Big three-toed tracks lead away from the nest, and a torn map flutters in the mud. It's up to you to find which dino did it.

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 Egg Snatcher is _____

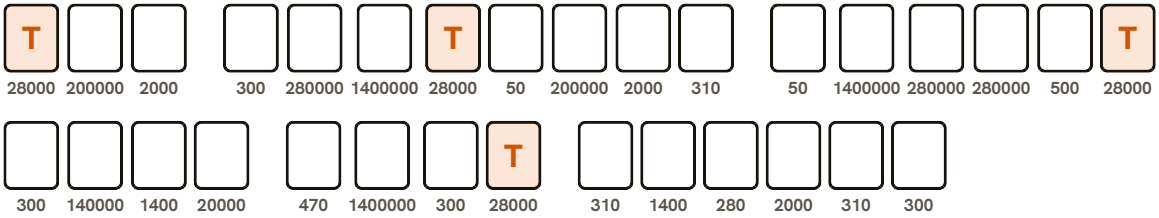
Possible suspects

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
Razor	Pteranodon	climbs tall cliffs	horned crest	green scales	bright lights
Spike	Raptor	sneaks in silence	smooth crest	green scales	loud thunder
Swoop	Pteranodon	digs deep tunnels	smooth crest	red scales	bright lights
Maple	Triceratops	leaps over fences	smooth crest	red scales	cold mud
Dakota	Raptor	swims fast rivers	horned crest	red scales	bright lights
Glider	Stegosaurus	digs deep tunnels	horned crest	red scales	cold mud
Roary	Raptor	leaps over fences	horned crest	brown scales	bright lights
Talon	Triceratops	digs deep tunnels	smooth crest	green scales	bright lights
Bronson	Raptor	climbs tall cliffs	smooth crest	brown scales	loud thunder
Bramble	T-Rex	digs deep tunnels	horned crest	red scales	bright lights
Clawdia	Raptor	swims fast rivers	smooth crest	red scales	bright lights
Gnasher	Raptor	swims fast rivers	horned crest	green scales	loud thunder
Petra	Triceratops	climbs tall cliffs	horned crest	green scales	loud thunder
Dustin	Pteranodon	sneaks in silence	smooth crest	red scales	bright lights
Pebbles	Pteranodon	climbs tall cliffs	horned crest	brown scales	loud thunder
Chomper	Triceratops	leaps over fences	smooth crest	red scales	bright lights
Maizie	Triceratops	swims fast rivers	smooth crest	brown scales	bright lights
Cricket	Pteranodon	swims fast rivers	horned crest	brown scales	cold mud
Rexford	T-Rex	climbs tall cliffs	smooth crest	red scales	loud thunder
Ferny	Stegosaurus	swims fast rivers	smooth crest	green scales	bright lights
Thorn	Stegosaurus	digs deep tunnels	smooth crest	red scales	bright lights

CLUE 1 Rounding

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



Round 28,173 to the nearest thousand		T	Round 206,140 to the nearest hundred thousand		H
Round 2,006 to the nearest thousand		E	Round 295 to the nearest hundred		S
Round 282,512 to the nearest ten thousand		N	Round 1,412,987 to the nearest hundred thousand		A
Round 48 to the nearest ten		C	Round 310 to the nearest ten		R
Round 465 to the nearest hundred		O	Round 141,635 to the nearest ten thousand		W
Round 1,432 to the nearest hundred		I	Round 17,000 to the nearest ten thousand		M
Round 471 to the nearest ten		F	Round 281 to the nearest ten		V

Scratch space:

CLUE 2 Addition

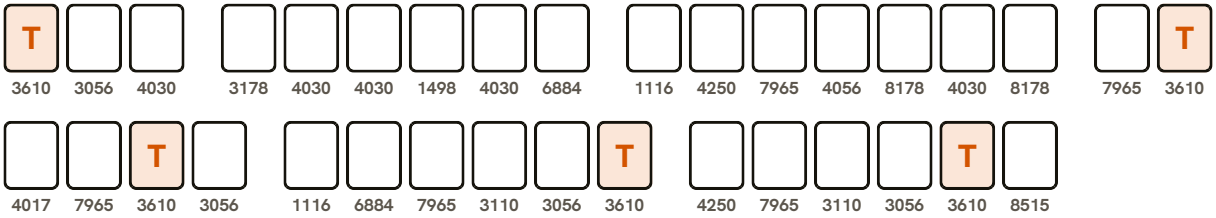
Solve each problem, then write its letter in every clue box that shows the same number.

1895 + 1464 =		A	2613 + 3297 =		W	1829 + 1809 =		I
1347 + 1437 =		T	1560 + 1565 =		N	1868 + 1554 =		E
3144 + 1393 =		S	3358 + 2444 =		M	4691 + 4815 =		O
3197 + 2126 =		H	1335 + 2075 =		C	4892 + 3639 =		R
2249 + 2794 =		D	2583 + 4141 =		K			

Scratch space:

CLUE 3 Subtraction

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

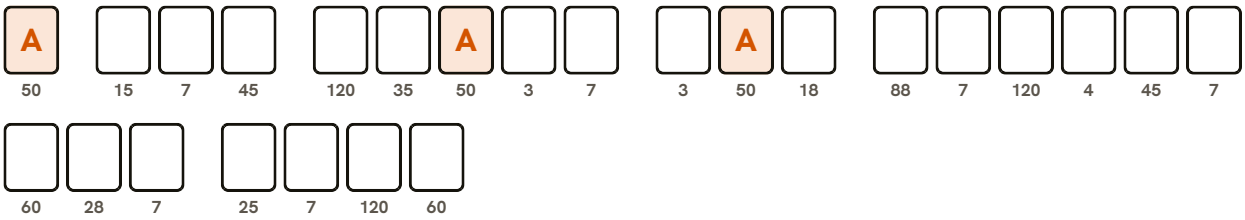


7645 - 4035 =		T	5975 - 2919 =		H	7033 - 3003 =		E
7360 - 4182 =		K	3337 - 1839 =		P	11526 - 4642 =		R
2453 - 1337 =		B	7492 - 3242 =		L	12668 - 4703 =		I
8921 - 4865 =		N	9094 - 916 =		D	8740 - 4723 =		W
5891 - 2781 =		G	10807 - 2292 =		S			

Scratch space:

CLUE 4 Multiplication facts (1-12)

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



10 × 5 =		A	3 × 5 =		R	7 × 1 =		E
5 × 9 =		D	12 × 10 =		S	7 × 5 =		C
1 × 3 =		L	6 × 3 =		Y	11 × 8 =		B
4 × 1 =		I	10 × 6 =		T	7 × 4 =		H
5 × 5 =		N						

Scratch space:

CLUE 5 Division facts (1-12) - 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:

8 ÷ 2 = ☐	25 ÷ 5 = ☐	24 ÷ 12 = ☐
30 ÷ 10 = ☐	90 ÷ 9 = ☐	110 ÷ 10 = ☐
21 ÷ 3 = ☐	108 ÷ 9 = ☐	99 ÷ 11 = ☐
4 ÷ 4 = ☐	72 ÷ 12 = ☐	

Step 2 - cross out the sentence with each answer:

1. The villain stomps up to the nest, then swims fast rivers.
2. The villain glides down from above, then sneaks in silence.
3. The villain stomps up to the nest, then digs deep tunnels.
4. The villain charges through the gate, then leaps over fences.
5. The villain swings its spiked tail, then digs deep tunnels.
6. The villain darts past the guards, then digs deep tunnels.
7. The villain stomps up to the nest, then leaps over fences.
8. The villain glides down from above, then digs deep tunnels.
9. The villain glides down from above, then climbs tall cliffs.
10. The villain charges through the gate, then climbs tall cliffs.
11. The villain swings its spiked tail, then swims fast rivers.
12. The villain swings its spiked tail, then sneaks in silence.

TEACHER / PARENT

Answer Key

Case of the Missing Egg Keeper

Culprit: Swoop

Pteranodon · digs deep tunnels · smooth crest · red scales · bright lights

Trail: Start 21 → Clue 1 15 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SNATCHER CANNOT SWIM FAST RIVERS"

Round 28,173 to the nearest thousand = 28000 (T) · Round 206,140 to the nearest hundred thousand = 200000 (H) · Round 2,006 to the nearest thousand = 2000 (E) · Round 295 to the nearest hundred = 300 (S) · Round 282,512 to the nearest ten thousand = 280000 (N) · Round 1,412,987 to the nearest hundred thousand = 1400000 (A) · Round 48 to the nearest ten = 50 (C) · Round 310 to the nearest ten = 310 (R) · Round 465 to the nearest hundred = 500 (O) · Round 141,635 to the nearest ten thousand = 140000 (W) · Round 1,432 to the nearest hundred = 1400 (I) · Round 17,000 to the nearest ten thousand = 20000 (M) · Round 471 to the nearest ten = 470 (F) · Round 281 to the nearest ten = 280 (V)

Clue 2 (Addition): "A WITNESS SAW A SMOOTH CREST IN THE DARK"

1895 + 1464 = 3359 (A) · 2613 + 3297 = 5910 (W) · 1829 + 1809 = 3638 (I) · 1347 + 1437 = 2784 (T) · 1560 + 1565 = 3125 (N) · 1868 + 1554 = 3422 (E) · 3144 + 1393 = 4537 (S) · 3358 + 2444 = 5802 (M) · 4691 + 4815 = 9506 (O) · 3197 + 2126 = 5323 (H) · 1335 + 2075 = 3410 (C) · 4892 + 3639 = 8531 (R) · 2249 + 2794 = 5043 (D) · 2583 + 4141 = 6724 (K)

Clue 3 (Subtraction): "THE KEEPER BLINDED IT WITH BRIGHT LIGHTS"

7645 - 4035 = 3610 (T) · 5975 - 2919 = 3056 (H) · 7033 - 3003 = 4030 (E) · 7360 - 4182 = 3178 (K) · 3337 - 1839 = 1498 (P) · 11526 - 4642 = 6884 (R) · 2453 - 1337 = 1116 (B) · 7492 - 3242 = 4250 (L) · 12668 - 4703 = 7965 (I) · 8921 - 4865 = 4056 (N) · 9094 - 916 = 8178 (D) · 8740 - 4723 = 4017 (W) · 5891 - 2781 = 3110 (G) · 10807 - 2292 = 8515 (S)

Clue 4 (Multiplication facts (1-12)): "A RED SCALE LAY BESIDE THE NEST"

10 × 5 = 50 (A) · 3 × 5 = 15 (R) · 7 × 1 = 7 (E) · 5 × 9 = 45 (D) · 12 × 10 = 120 (S) · 7 × 5 = 35 (C) · 1 × 3 = 3 (L) · 6 × 3 = 18 (Y) · 11 × 8 = 88 (B) · 4 × 1 = 4 (I) · 10 × 6 = 60 (T) · 7 × 4 = 28 (H) · 5 × 5 = 25 (N)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Swoop

8 ÷ 2 = 4 · 25 ÷ 5 = 5 · 24 ÷ 12 = 2 · 30 ÷ 10 = 3 · 90 ÷ 9 = 10 · 110 ÷ 10 = 11 · 21 ÷ 3 = 7 · 108 ÷ 9 = 12 · 99 ÷ 11 = 9 · 4 ÷ 4 = 1 · 72 ÷ 12 = 6