



The Great Dinosaur Egg Hunt

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

Detective: _____ Date: _____

A rare golden dinosaur egg has vanished from the Dino Valley Research Park! A sneaky thief used prehistoric powers to bypass the security gates. It is up to you to crack the codes, track the footprints, and find the culprit before the egg hatches!

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 Dino-Thief is _____

Possible suspects

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

NAME	DINO ROAR	SADDLE GEAR	FLASHLIGHT USE	CREST COLOR	DINO TREAT
Ian Malcolm	Triceratops Bash	GPS Tracker	Left Handed	Bright Green	Sweet Berries
Luis Chiappe	Triceratops Bash	Bubble Shield	Right Handed	Neon Orange	Sweet Berries
John Ostrom	Ankylosaurus Smash	GPS Tracker	Right Handed	Bright Green	Sweet Berries
Othniel Marsh	T-Rex Chomp	Night Vision	Left Handed	Deep Purple	Salty Moss
William Buckland	Ankylosaurus Smash	Bubble Shield	Right Handed	Neon Orange	Sweet Berries
Joan Wiffen	Pterodactyl Glide	GPS Tracker	Right Handed	Bright Green	Sweet Berries
Paul Sereno	Raptor Speed	Night Vision	Left Handed	Deep Purple	Sour Ferns
Patricia Vickers	Raptor Speed	GPS Tracker	Left Handed	Deep Purple	Sour Ferns
Alan Grant	Pterodactyl Glide	Laser Pointer	Right Handed	Bright Green	Sweet Berries
Rex Stone	Raptor Speed	Laser Pointer	Right Handed	Neon Orange	Salty Moss
Roy Chapman	Raptor Speed	Net Launcher	Right Handed	Bright Green	Sweet Berries
Mary Anning	Raptor Speed	Night Vision	Left Handed	Deep Purple	Sweet Berries
Dong Zhiming	Ankylosaurus Smash	Laser Pointer	Left Handed	Deep Purple	Salty Moss
Jack Horner	T-Rex Chomp	Laser Pointer	Right Handed	Bright Green	Sour Ferns
Gideon Mantell	Ankylosaurus Smash	Night Vision	Right Handed	Bright Green	Salty Moss
Barnum Brown	Ankylosaurus Smash	Bubble Shield	Left Handed	Deep Purple	Sour Ferns
Ellie Sattler	Raptor Speed	Night Vision	Right Handed	Neon Orange	Sour Ferns
Steve Brusatte	Ankylosaurus Smash	GPS Tracker	Left Handed	Deep Purple	Salty Moss
Edward Cope	Pterodactyl Glide	GPS Tracker	Right Handed	Neon Orange	Salty Moss
Sue Hendrickson	Triceratops Bash	Laser Pointer	Right Handed	Bright Green	Sweet Berries
Richard Owen	Ankylosaurus Smash	GPS Tracker	Left Handed	Bright Green	Salty Moss

CLUE 1 Rounding

The security radar caught the thief escaping, but the radar screen only displays numbers rounded to the nearest ten.

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

T 110	290	500	T 110	290	4300	500	430	2900	90	500	3000	200	90	T 110	7000	3000	500	370
200	500	T 110	1100	370	7000	200	2000	290	500	3700								

Round 113 to the nearest ten →

T

Round 2,945 to the nearest hundred →

D

Round 427 to the nearest ten →

F

Round 3,722 to the nearest hundred →

R

Round 193 to the nearest hundred →

N

Round 3,341 to the nearest thousand →

S

Round 519 to the nearest hundred →

E

Round 372 to the nearest ten →

A

Round 90 to the nearest ten →

O

Round 1,059 to the nearest hundred →

L

Round 1,520 to the nearest thousand →

C

Round 4,272 to the nearest hundred →

I

Round 7,474 to the nearest thousand →

U

Round 292 to the nearest ten →

H

Scratch space:

CLUE 2 Addition

We found giant dinosaur footprints in the mud! Let us add up all the tracks we counted to see which path the thief took.

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

T 4261	9794	7099	T 4261	9794	7588	7099	7572	9794	7099	8256	8710	T 4261	9794	7099
8256	7588	8311	9794	T 4261	7588	9550	T 4261	9794	7099	7588	4220	4220	7588	8311
9794	4193	9550	8710											

$2918 + 1343 = \square \rightarrow \text{T}$	$5505 + 2806 = \square \rightarrow \text{G}$	$4162 + 5632 = \square \rightarrow \text{H}$
$2149 + 2071 = \square \rightarrow \text{R}$	$4358 + 3214 = \square \rightarrow \text{F}$	$4634 + 2954 = \square \rightarrow \text{I}$
$2535 + 1658 = \square \rightarrow \text{A}$	$2643 + 4456 = \square \rightarrow \text{E}$	$5790 + 2920 = \square \rightarrow \text{D}$
$4948 + 3308 = \square \rightarrow \text{L}$	$4326 + 5224 = \square \rightarrow \text{N}$	

Scratch space:

CLUE 3

Some fossil tools are missing from the supply shed. Subtract the tools left behind from the total to see what they took.

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

Diagram showing the arrangement of 18 numbered boxes in two rows. The top row has 15 boxes, and the bottom row has 8 boxes. Boxes containing the letter 'T' are highlighted in orange.

Top row boxes (from left to right):

- 1473 (T)
- 2628
- 1801
- 3397
- 5610
- 1311
- 2738
- 6867
- 1473 (T)
- 2738
- 5103
- 5103
- 1801
- 3397
- 1473 (T)
- 2738
- 1801
- 7239
- 1473 (T)

Bottom row boxes (from left to right):

- 6867
- 4710
- 1801
- 1801
- 1473 (T)
- 3389
- 1801
- 5023
- 5023
- 5610
- 1801
- 6867

$$6084 - 4611 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$5066 - 1677 = \boxed{} \rightarrow \boxed{\mathbf{B}}$$

$3789 - 1988 = \boxed{} \rightarrow \boxed{\text{E}}$

$$9329 - 2462 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$5199 - 1802 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$6061 - 3433 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$6757 - 4019 = \boxed{} \rightarrow \boxed{0}$$

$$5427 - 324 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$8921 - 4211 = \boxed{} \rightarrow \boxed{W}$$

$3204 - 1893 = \boxed{} \rightarrow \boxed{\text{N}}$

$9274 - 2035 = \boxed{} \rightarrow \boxed{\text{A}}$

$$6411 - 1388 = \boxed{} \rightarrow \boxed{\text{R}}$$

$10136 - 4526 = \boxed{} \rightarrow \boxed{I}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

We found a grid of fossil storage boxes arranged in equal rows. Let us multiply the rows to count the total boxes searched.

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

W																		
27	72	4	70	40	14	1	64	120	81	80	55	35	66	55	81	72	72	14
35	72	30	28	72	66	45	35	64	81	1								

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

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

$5 \times 9 = \square \rightarrow \boxed{\text{S}}$

$4 \times 7 = \square \rightarrow \boxed{\text{M}}$

$5 \times 7 = \square \rightarrow \boxed{\text{H}}$

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

$11 \times 6 = \square \rightarrow \boxed{\text{T}}$

$1 \times 4 = \square \rightarrow \boxed{\text{F}}$

$6 \times 12 = \square \rightarrow \boxed{\text{E}}$

$5 \times 6 = \square \rightarrow \boxed{\text{L}}$

$4 \times 10 = \square \rightarrow \boxed{\text{U}}$

$1 \times 1 = \square \rightarrow \boxed{\text{D}}$

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

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

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

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

$2 \times 7 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

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

The ranger wants to share the tracking team treats equally among all the rescue dogs. Divide them up to get the final 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:

$99 \div 11 = \boxed{}$

$108 \div 9 = \boxed{}$

$9 \div 3 = \boxed{}$

$60 \div 10 = \boxed{}$

$84 \div 12 = \boxed{}$

$99 \div 9 = \boxed{}$

$40 \div 5 = \boxed{}$

$15 \div 3 = \boxed{}$

$24 \div 12 = \boxed{}$

$20 \div 5 = \boxed{}$

$3 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain used a mighty t-rex chomp, then turned on their night vision goggles.
2. The villain cleared the gate with a triceratops bash, then turned on their night vision goggles.
3. The villain escaped using a pterodactyl glide, then aimed a red laser pointer.
4. The villain used a mighty t-rex chomp, then aimed a red laser pointer.
5. The villain ran with incredible raptor speed, then checked their trusty gps tracker.
6. The villain broke the wall with an ankylosaurus smash, then turned on their night vision goggles.
7. The villain escaped using a pterodactyl glide, then turned on their night vision goggles.
8. The villain ran with incredible raptor speed, then aimed a red laser pointer.
9. The villain escaped using a pterodactyl glide, then checked their trusty gps tracker.
10. The villain broke the wall with an ankylosaurus smash, then checked their trusty gps tracker.
11. The villain cleared the gate with a triceratops bash, then fired a rapid net launcher.
12. The villain cleared the gate with a triceratops bash, then aimed a red laser pointer.

Answer Key

The Great Dinosaur Egg Hunt

Culprit: John Ostrom

Ankylosaurus Smash · GPS Tracker · Right Handed · Bright Green · Sweet Berries

Trail: Start 21 → Clue 1 20 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE THIEF DOES NOT USE A NET LAUNCHER"

Round 113 to the nearest ten = 110 (T) · Round 2,945 to the nearest hundred = 2900 (D) · Round 427 to the nearest ten = 430 (F) · Round 3,722 to the nearest hundred = 3700 (R) · Round 193 to the nearest hundred = 200 (N) · Round 3,341 to the nearest thousand = 3000 (S) · Round 519 to the nearest hundred = 500 (E) · Round 372 to the nearest ten = 370 (A) · Round 90 to the nearest ten = 90 (O) · Round 1,059 to the nearest hundred = 1100 (L) · Round 1,520 to the nearest thousand = 2000 (C) · Round 4,272 to the nearest hundred = 4300 (I) · Round 7,474 to the nearest thousand = 7000 (U) · Round 292 to the nearest ten = 290 (H)

Clue 2 (Addition): "THE THIEF HELD THE LIGHT IN THEIR RIGHT HAND"

$2918 + 1343 = 4261$ (T) · $5505 + 2806 = 8311$ (G) · $4162 + 5632 = 9794$ (H) · $2149 + 2071 = 4220$ (R) · $4358 + 3214 = 7572$ (F) · $4634 + 2954 = 7588$ (I) · $2535 + 1658 = 4193$ (A) · $2643 + 4456 = 7099$ (E) · $5790 + 2920 = 8710$ (D) · $4948 + 3308 = 8256$ (L) · $4326 + 5224 = 9550$ (N)

Clue 3 (Subtraction): "THE DINO STOPPED TO EAT SWEET BERRIES"

$6084 - 4611 = 1473$ (T) · $5066 - 1677 = 3389$ (B) · $3789 - 1988 = 1801$ (E) · $9329 - 2462 = 6867$ (S) · $5199 - 1802 = 3397$ (D) · $6061 - 3433 = 2628$ (H) · $6757 - 4019 = 2738$ (O) · $5427 - 324 = 5103$ (P) · $8921 - 4211 = 4710$ (W) · $3204 - 1893 = 1311$ (N) · $9274 - 2035 = 7239$ (A) · $6411 - 1388 = 5023$ (R) · $10136 - 4526 = 5610$ (I)

Clue 4 (Multiplication facts (1-12)): "WE FOUND A BRIGHT GREEN HELMET SHARD"

$3 \times 9 = 27$ (W) · $5 \times 11 = 55$ (G) · $5 \times 9 = 45$ (S) · $4 \times 7 = 28$ (M) · $5 \times 7 = 35$ (H) · $7 \times 10 = 70$ (O) · $11 \times 6 = 66$ (T) · $1 \times 4 = 4$ (F) · $6 \times 12 = 72$ (E) · $5 \times 6 = 30$ (L) · $4 \times 10 = 40$ (U) · $1 \times 1 = 1$ (D) · $9 \times 9 = 81$ (R) · $8 \times 8 = 64$ (A) · $12 \times 10 = 120$ (B) · $10 \times 8 = 80$ (I) · $2 \times 7 = 14$ (N)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → John Ostrom

$99 \div 11 = 9$ · $108 \div 9 = 12$ · $9 \div 3 = 3$ · $60 \div 10 = 6$ · $84 \div 12 = 7$ · $99 \div 9 = 11$ · $40 \div 5 = 8$ · $15 \div 3 = 5$ · $24 \div 12 = 2$ · $20 \div 5 = 4$ · $3 \div 3 = 1$