



The Golden Fossil Caper

Grade 2 math · Addition, Subtraction, Word problems, Multi-step word problems, Missing addends · Reading level grades 1-2

Detective: _____ Date: _____

A sneaky thief took the golden fossil from the Dino Valley Camp. We need to find which dino tracker is the thief!

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	MAIN DINO MOVE	SPECIAL GEAR	CLAW PRINT	DINO FEATURE	DINO DISTRACTION
Tim	Tricera smash	loud roar	right clawed	red feathers	shiny flash
Owen	Ptera glide	night vision	left clawed	blue crest	loud whistle
Maisie	Ptera glide	armor plate	left clawed	green scales	loud whistle
Webb	Raptor dash	night vision	left clawed	blue crest	sweet berry
Barnum	Raptor dash	night vision	left clawed	green scales	loud whistle
Rex	Spino swim	super sniff	left clawed	blue crest	sweet berry
Nedry	Raptor dash	night vision	right clawed	red feathers	shiny flash
Alan	Ptera glide	night vision	right clawed	green scales	loud whistle
Ellie	T-Rex stomp	night vision	right clawed	blue crest	loud whistle
Cope	Raptor dash	super sniff	left clawed	green scales	loud whistle
Spike	Spino swim	heat sensor	right clawed	green scales	loud whistle
Anning	Ptera glide	night vision	right clawed	red feathers	sweet berry
Ian	Ptera glide	night vision	left clawed	red feathers	loud whistle
Ducky	T-Rex stomp	super sniff	left clawed	green scales	loud whistle
Lex	Spino swim	super sniff	left clawed	green scales	shiny flash
Sarah	Raptor dash	loud roar	left clawed	green scales	loud whistle
Petrie	T-Rex stomp	heat sensor	left clawed	red feathers	loud whistle
Cera	Ptera glide	super sniff	left clawed	green scales	shiny flash
Wu	Tricera smash	heat sensor	left clawed	blue crest	loud whistle
Grant	Spino swim	loud roar	left clawed	blue crest	loud whistle
Malcolm	Raptor dash	super sniff	right clawed	red feathers	sweet berry

CLUE 1 Addition

We count the footprints near the camp. Let us add the big tracks and small tracks together to find the first clue.

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

T			T											T				
62	67	51	62	67	55	51	88	59	61	51	93	53	61	62	67	26	77	51

								T		
26	22	27	61	22	94	37	26	62	51	93

$28 + 34 = \square \rightarrow$ T	$19 + 8 = \square \rightarrow$ M	$19 + 32 = \square \rightarrow$ E
$16 + 10 = \square \rightarrow$ A	$40 + 37 = \square \rightarrow$ V	$20 + 47 = \square \rightarrow$ H
$46 + 47 = \square \rightarrow$ S	$35 + 20 = \square \rightarrow$ I	$34 + 27 = \square \rightarrow$ O
$42 + 46 = \square \rightarrow$ F	$29 + 24 = \square \rightarrow$ N	$16 + 6 = \square \rightarrow$ R
$21 + 16 = \square \rightarrow$ L	$58 + 36 = \square \rightarrow$ P	$23 + 36 = \square \rightarrow$ D

Scratch space:

CLUE 2

Subtraction

A box of dino treats was opened. We must subtract the eaten treats from the total to see what is left.

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

T											T								
17	28	63	18	75	75	13	21	44	28	17	28	21	63	18	14	44	63	41	

T								T				
17	28	63	21	58	13	63	18	17	57	13	64	26

$53 - 36 = \square \rightarrow \boxed{\text{T}}$

$36 - 8 = \square \rightarrow \boxed{\text{H}}$

$40 - 26 = \square \rightarrow \boxed{\text{U}}$

$71 - 30 = \square \rightarrow \boxed{\text{D}}$

$89 - 14 = \square \rightarrow \boxed{\text{O}}$

$69 - 11 = \square \rightarrow \boxed{\text{R}}$

$85 - 28 = \square \rightarrow \boxed{\text{C}}$

$29 - 16 = \square \rightarrow \boxed{\text{L}}$

$69 - 6 = \square \rightarrow \boxed{\text{E}}$

$58 - 14 = \square \rightarrow \boxed{\text{S}}$

$88 - 24 = \square \rightarrow \boxed{\text{A}}$

$60 - 34 = \square \rightarrow \boxed{\text{W}}$

$41 - 20 = \square \rightarrow \boxed{\text{I}}$

$23 - 5 = \square \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 3

Word problems

The camp team needs to share their walkie talkies. Solve this word problem to get the next hint.

Solve each problem, then write its letter in the boxes to fill in the missing word.

Someone scared the villain off with

L							S	T	L	E
18	38	21	24	20	27	37			18	

.

Ranger Rex lined up 2 rows of 9 dino treats. How many dino treats in all?

Answer: →

L

There were 37 shiny rocks. 10 were used up. How many shiny rocks are left?

Answer: →

H

Ranger Rex lined up 7 rows of 3 fossil brushes. How many fossil brushes in all?

Answer: →

U

There were 29 fossil brushes. 9 were used up. How many fossil brushes are left?

Answer: →

W

Ranger Rex found 32 shiny rocks yesterday and 6 more today. How many shiny rocks in all?

Answer: →

O

Ranger Rex found 33 dig shovels yesterday and 4 more today. How many dig shovels in all?

Answer: →

I

Ranger Rex lined up 4 rows of 6 fossil brushes. How many fossil brushes in all?

Answer: →

D

Scratch space:

CLUE 4

Multi-step word problems

A ranger finds some lost tools and then drops a few on the trail. Let us do the steps to see the total.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A strand of

G									L		
27	32	29	29	6	12	7	23	29	12		

 hair turned up at the scene.

Ranger Rex collected 54 toy trackers in the morning and 54 toy trackers in the afternoon, then split them equally among 4 Dino Patrol. How many toy trackers did each get?

Answer: → **G**

There were 155 fossil brushes in all. 35 fossil brushes were set aside. The rest were shared equally among 10 Dino Patrol. How many fossil brushes did each get?

Answer: → **S**

Ranger Rex earned 3 dino treats in each of 6 rounds, plus 14 bonus dino treats. Then 9 dino treats were lost. How many dino treats are left?

Answer: → **A**

Ranger Rex earned 4 dino treats in each of 5 rounds, plus 17 bonus dino treats. Then 5 dino treats were lost. How many dino treats are left?

Answer: → **R**

Ranger Rex earned 2 fossil brushes in each of 6 rounds, plus 32 bonus fossil brushes. Then 15 fossil brushes were lost. How many fossil brushes are left?

Answer: → **E**

Ranger Rex collected 8 dino treats in the morning and 34 dino treats in the afternoon, then split them equally among 6 Dino Patrol. How many dino treats did each get?

Answer: → **C**

There were 62 fossil brushes in all. 8 fossil brushes were set aside. The rest were shared equally among 9 Dino Patrol. How many fossil brushes did each get?

Answer: → **N**

Scratch space:

CLUE 5**Missing addends - the last clue**

We need ten cups of fossil dust to finish our test. Find the missing number of cups to unlock 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:

$4 + \underline{\quad} = 7$

$3 + \underline{\quad} = 14$

$8 + \underline{\quad} = 10$

$6 + \underline{\quad} = 10$

$9 + \underline{\quad} = 15$

$8 + \underline{\quad} = 16$

$4 + \underline{\quad} = 13$

$7 + \underline{\quad} = 19$

$9 + \underline{\quad} = 16$

$5 + \underline{\quad} = 15$

$7 + \underline{\quad} = 8$

Step 2 - cross out the sentence with each answer:

1. The villain runs fast with a raptor dash, then finds targets with a heat sensor.
2. The villain runs fast with a raptor dash, then looks around with night vision.
3. The villain runs fast with a raptor dash, then scares everyone with a loud roar.
4. The villain breaks the wall with a tricera smash, then scares everyone with a loud roar.
5. The villain shakes the ground with a t-rex stomp, then tracks scents with a super sniff.
6. The villain shakes the ground with a t-rex stomp, then looks around with night vision.
7. The villain escapes with a spino swim, then blocks traps with an armor plate.
8. The villain escapes with a spino swim, then finds targets with a heat sensor.
9. The villain escapes with a spino swim, then looks around with night vision.
10. The villain breaks the wall with a tricera smash, then tracks scents with a super sniff.
11. The villain runs fast with a raptor dash, then tracks scents with a super sniff.
12. The villain shakes the ground with a t-rex stomp, then scares everyone with a loud roar.

Answer Key

The Golden Fossil Caper

Culprit: Ducky

T-Rex stomp · super sniff · left clawed · green scales · loud whistle

Trail: Start 21 → Clue 1 20 → Clue 2 13 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT HAVE ARMOR PLATES"

$28 + 34 = 62$ (T) · $19 + 8 = 27$ (M) · $19 + 32 = 51$ (E) · $16 + 10 = 26$ (A) · $40 + 37 = 77$ (V) · $20 + 47 = 67$ (H) · $46 + 47 = 93$ (S) · $35 + 20 = 55$ (I) · $34 + 27 = 61$ (O) · $42 + 46 = 88$ (F) · $29 + 24 = 53$ (N) · $16 + 6 = 22$ (R) · $21 + 16 = 37$ (L) · $58 + 36 = 94$ (P) · $23 + 36 = 59$ (D)

Clue 2 (Subtraction): "THE FOOLISH THIEF USED THEIR LEFT CLAW"

$53 - 36 = 17$ (T) · $36 - 8 = 28$ (H) · $40 - 26 = 14$ (U) · $71 - 30 = 41$ (D) · $89 - 14 = 75$ (O) · $69 - 11 = 58$ (R) · $85 - 28 = 57$ (C) · $29 - 16 = 13$ (L) · $69 - 6 = 63$ (E) · $58 - 14 = 44$ (S) · $88 - 24 = 64$ (A) · $60 - 34 = 26$ (W) · $41 - 20 = 21$ (I) · $23 - 5 = 18$ (F)

Clue 3 (Word problems): "LOUD WHISTLE"

Ranger Rex lined up 2 rows of 9 dino treats. How many dino treats in all? = 18 (L) · There were 37 shiny rocks. 10 were used up. How many shiny rocks are left? = 27 (H) · Ranger Rex lined up 7 rows of 3 fossil brushes. How many fossil brushes in all? = 21 (U) · There were 29 fossil brushes. 9 were used up. How many fossil brushes are left? = 20 (W) · Ranger Rex found 32 shiny rocks yesterday and 6 more today. How many shiny rocks in all? = 38 (O) · Ranger Rex found 33 dig shovels yesterday and 4 more today. How many dig shovels in all? = 37 (I) · Ranger Rex lined up 4 rows of 6 fossil brushes. How many fossil brushes in all? = 24 (D)

Clue 4 (Multi-step word problems): "GREEN SCALES"

Ranger Rex collected 54 toy trackers in the morning and 54 toy trackers in the afternoon, then split them equally among 4 Dino Patrol. How many toy trackers did each get? = 27 (G) · There were 155 fossil brushes in all. 35 fossil brushes were set aside. The rest were shared equally among 10 Dino Patrol. How many fossil brushes did each get? = 12 (S) · Ranger Rex earned 3 dino treats in each of 6 rounds, plus 14 bonus dino treats. Then 9 dino treats were lost. How many dino treats are left? = 23 (A) · Ranger Rex earned 4 dino treats in each of 5 rounds, plus 17 bonus dino treats. Then 5 dino treats were lost. How many dino treats are left? = 32 (R) · Ranger Rex earned 2 fossil brushes in each of 6 rounds, plus 32 bonus fossil brushes. Then 15 fossil brushes were lost. How many fossil brushes are left? = 29 (E) · Ranger Rex collected 8 dino treats in the morning and 34 dino treats in the afternoon, then split them equally among 6 Dino Patrol. How many dino treats did each get? = 7 (C) · There were 62 fossil brushes in all. 8 fossil brushes were set aside. The rest were shared equally among 9 Dino Patrol. How many fossil brushes did each get? = 6 (N)

Clue 5 (Missing addends): surviving statement is box 5 → Ducky

$4 + \underline{\quad} = 7 = 3$ · $3 + \underline{\quad} = 14 = 11$ · $8 + \underline{\quad} = 10 = 2$ · $6 + \underline{\quad} = 10 = 4$ · $9 + \underline{\quad} = 15 = 6$ · $8 + \underline{\quad} = 16 = 8$ · $4 + \underline{\quad} = 13 = 9$ · $7 + \underline{\quad} = 19 = 12$ · $9 + \underline{\quad} = 16 = 7$ · $5 + \underline{\quad} = 15 = 10$ · $7 + \underline{\quad} = 8 = 1$