The Mystery of the Missing T-Rex Tooth

Grade 1 math · Addition, Subtraction, Multiplication, Skip counting, Division · Reading level grades 1-2

Detective: _____ **Date:** _____

A rare golden T-Rex tooth disappeared from the museum display! The park ranger needs your help to find which sneaky dino fan took 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 Dino Prankster is _____

Possible suspects

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

NAME	DINO GEAR	FOSSIL BADGE	FOOTPRINT STYLE	HAT COLOR	FAVORITE SNACK
Toby Track	Track Finder	Stegosaurus Badge	Left Boot Print	Brown Fedora	Berry Crisp
Leo Raptor	Digging Shovel	Stegosaurus Badge	Right Boot Print	Brown Fedora	Berry Crisp
Penny Pinch	Flashlight Pack	Stegosaurus Badge	Right Boot Print	Brown Fedora	Berry Crisp
Kira Mud	Fossil Scanner	Pterodactyl Badge	Right Boot Print	Green Cap	Berry Crisp
Pete Peat	Flashlight Pack	T-Rex Badge	Left Boot Print	Yellow Helmet	Dino Crunch
Opal Orton	Digging Shovel	Stegosaurus Badge	Right Boot Print	Yellow Helmet	Berry Crisp
Finn Flint	Flashlight Pack	Stegosaurus Badge	Right Boot Print	Yellow Helmet	Berry Crisp
Professor Bone	Fossil Scanner	Raptor Badge	Left Boot Print	Brown Fedora	Fern Chips
Jack Jasper	Flashlight Pack	Pterodactyl Badge	Right Boot Print	Green Cap	Dino Crunch
Barnum Brown	Dino Whistle	Raptor Badge	Right Boot Print	Brown Fedora	Fern Chips
Quinn Quartz	Track Finder	Triceratops Badge	Right Boot Print	Brown Fedora	Berry Crisp
Mona Mud	Fossil Scanner	T-Rex Badge	Right Boot Print	Yellow Helmet	Dino Crunch
Ella Amber	Flashlight Pack	T-Rex Badge	Right Boot Print	Brown Fedora	Berry Crisp
Maya Fossil	Dino Whistle	T-Rex Badge	Right Boot Print	Yellow Helmet	Fern Chips
Zack Zoom	Digging Shovel	T-Rex Badge	Left Boot Print	Brown Fedora	Dino Crunch
Iris Ivory	Flashlight Pack	Pterodactyl Badge	Right Boot Print	Brown Fedora	Berry Crisp
Noah Nodule	Dino Whistle	Stegosaurus Badge	Right Boot Print	Yellow Helmet	Fern Chips
Liam Leaf	Flashlight Pack	Stegosaurus Badge	Left Boot Print	Yellow Helmet	Dino Crunch
Dr Mary Anning	Flashlight Pack	Raptor Badge	Right Boot Print	Green Cap	Berry Crisp
Sammy Stone	Digging Shovel	Stegosaurus Badge	Left Boot Print	Green Cap	Fern Chips
Ranger Rick	Dino Whistle	Triceratops Badge	Left Boot Print	Yellow Helmet	Berry Crisp

make your own at mathcrackers.com

CLUE 1 Addition

Ranger Rick counted the bone tools found near the museum door to open Clue 1.

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

T																						
15	19	5	20	3	5	9	13	11	12	8	6	6	9	8	3	19	9	20				

		T										
3	18	15	10	5	7	16	9	4	17	5		

8 + 7 = ☐ → T

1 + 5 = ☐ → L

5 + 2 = ☐ → X

13 + 6 = ☐ → H

12 + 4 = ☐ → B

13 + 5 = ☐ → O

3 + 1 = ☐ → D

3 + 2 = ☐ → E

5 + 7 = ☐ → V

10 + 3 = ☐ → K

3 + 5 = ☐ → I

2 + 1 = ☐ → N

7 + 3 = ☐ → R

4 + 7 = ☐ → Y

4 + 5 = ☐ → A

6 + 11 = ☐ → G

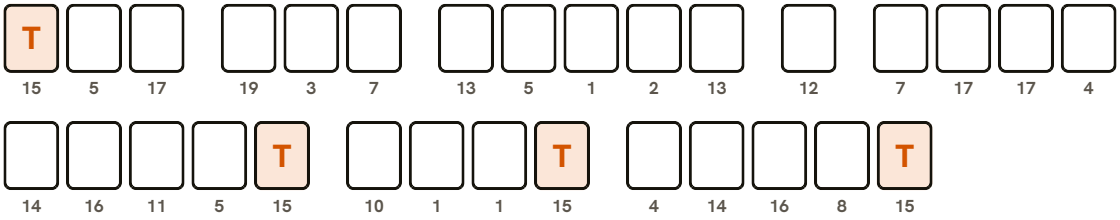
7 + 13 = ☐ → S

Scratch space:

CLUE 2 Subtraction

Maya dropped some fossil brushes so we counted how many were left to unlock Clue 2.

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



19 - 4 = ☐ → T

16 - 4 = ☐ → A

18 - 2 = ☐ → I

19 - 6 = ☐ → S

9 - 6 = ☐ → U

19 - 8 = ☐ → G

7 - 6 = ☐ → O

14 - 4 = ☐ → B

9 - 5 = ☐ → P

7 - 2 = ☐ → H

15 - 1 = ☐ → R

9 - 1 = ☐ → N

20 - 1 = ☐ → M

19 - 2 = ☐ → E

6 - 4 = ☐ → W

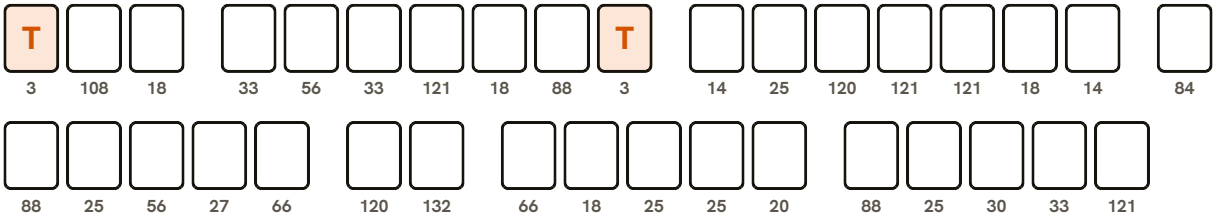
16 - 9 = ☐ → D

Scratch space:

CLUE 3 Multiplication facts (1-12)

> Professor Bone lined up dino eggs in equal rows to figure out Clue 3.

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



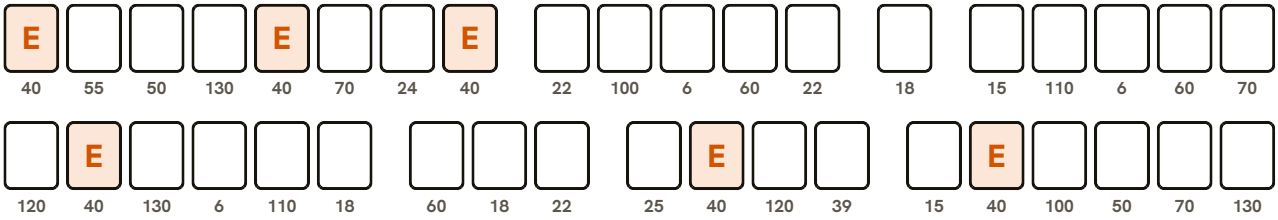
3 × 1 = ☐ → T	3 × 9 = ☐ → M	12 × 9 = ☐ → H
10 × 12 = ☐ → O	7 × 2 = ☐ → D	11 × 6 = ☐ → B
5 × 5 = ☐ → R	7 × 12 = ☐ → A	11 × 11 = ☐ → P
2 × 10 = ☐ → Y	2 × 9 = ☐ → E	11 × 3 = ☐ → S
6 × 5 = ☐ → I	11 × 8 = ☐ → C	7 × 8 = ☐ → U
12 × 11 = ☐ → F		

Scratch space:

CLUE 4 Skip counting

Toby counted footsteps by twos along the dirt path to reveal Clue 4.

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



Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, ___, 45, 50 ☐ → **E**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 ☐ → **F**

Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 ☐ → **O**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 ☐ → **V**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 ☐ → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 ☐ → **B**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 ☐ → **L**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, ___, 42, 45 ☐ → **T**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 ☐ → **R**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 ☐ → **H**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, ___, 60, 70 ☐ → **I**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, ___, 21, 24 ☐ → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 ☐ → **D**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, ___, 27, 30 ☐ → C

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, ___, 70, 80 ☐ → W

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 ☐ → S

Scratch space:

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

> Dr Mary shared fossil maps equally among the team to decode Clue 5.

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:

36 ÷ 6 = ☐ | 108 ÷ 12 = ☐ | 100 ÷ 10 = ☐ | 16 ÷ 4 = ☐ | 14 ÷ 7 = ☐

3 ÷ 1 = ☐ | 8 ÷ 8 = ☐ | 88 ÷ 8 = ☐ | 40 ÷ 5 = ☐ | 7 ÷ 1 = ☐

84 ÷ 7 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain scanned the dig site, then pinned on a trex badge.
2. The villain scanned for old fossils, then pinned on a trex badge.
3. The villain scanned for old fossils, then pinned on a pterodactyl badge.
4. The villain scanned the dig site, then pinned on a raptor badge.
5. The villain tracked the heavy footprints, then pinned on a triceratops badge.
6. The villain lit up the dark cave, then pinned on a stegosaurus badge.
7. The villain blew the dino whistle, then pinned on a raptor badge.
8. The villain blew the dino whistle, then pinned on a triceratops badge.
9. The villain scanned the dig site, then pinned on a stegosaurus badge.
10. The villain lit up the dark cave, then pinned on a pterodactyl badge.
11. The villain lit up the dark cave, then pinned on a triceratops badge.
12. The villain blew the dino whistle, then pinned on a pterodactyl badge.

TEACHER / PARENT

Answer Key

The Mystery of the Missing T-Rex Tooth

Culprit: Quinn Quartz

Track Finder · Triceratops Badge · Right Boot Print · Brown Fedora · Berry Crisp

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY VILLAIN HAS NO TREX BADGE"

8 + 7 = 15 (T) · 1 + 5 = 6 (L) · 5 + 2 = 7 (X) · 13 + 6 = 19 (H) · 12 + 4 = 16 (B) · 13 + 5 = 18 (O) · 3 + 1 = 4 (D) · 3 + 2 = 5 (E) · 5 + 7 = 12 (V) · 10 + 3 = 13 (K) · 3 + 5 = 8 (I) · 2 + 1 = 3 (N) · 7 + 3 = 10 (R) · 4 + 7 = 11 (Y) · 4 + 5 = 9 (A) · 6 + 11 = 17 (G) · 7 + 13 = 20 (S)

Clue 2 (Subtraction): "THE MUD SHOWS A DEEP RIGHT BOOT PRINT"

19 - 4 = 15 (T) · 16 - 4 = 12 (A) · 18 - 2 = 16 (I) · 19 - 6 = 13 (S) · 9 - 6 = 3 (U) · 19 - 8 = 11 (G) · 7 - 6 = 1 (O) · 14 - 4 = 10 (B) · 9 - 5 = 4 (P) · 7 - 2 = 5 (H) · 15 - 1 = 14 (R) · 9 - 1 = 8 (N) · 20 - 1 = 19 (M) · 19 - 2 = 17 (E) · 6 - 4 = 2 (W) · 16 - 9 = 7 (D)

Clue 3 (Multiplication facts (1-12)): "THE SUSPECT DROPPED A CRUMB OF BERRY CRISP"

3 × 1 = 3 (T) · 3 × 9 = 27 (M) · 12 × 9 = 108 (H) · 10 × 12 = 120 (O) · 7 × 2 = 14 (D) · 11 × 6 = 66 (B) · 5 × 5 = 25 (R) · 7 × 12 = 84 (A) · 11 × 11 = 121 (P) · 2 × 10 = 20 (Y) · 2 × 9 = 18 (E) · 11 × 3 = 33 (S) · 6 × 5 = 30 (I) · 11 × 8 = 88 (C) · 7 × 8 = 56 (U) · 12 × 11 = 132 (F)

Clue 4 (Skip counting): "EVIDENCE SHOWS A BROWN FEDORA WAS LEFT BEHIND"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, ___, 45, 50 = 40 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 = 120 (F) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 = 55 (V) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 = 70 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 = 15 (B) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 = 25 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, ___, 42, 45 = 39 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 = 100 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, ___, 60, 70 = 50 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, ___, 21, 24 = 18 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 = 130 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, ___, 27, 30 = 24 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, ___, 70, 80 = 60 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 = 22 (S)

Clue 5 (Division facts (1-12)): surviving statement is box 5 → Quinn Quartz

36 ÷ 6 = 6 · 108 ÷ 12 = 9 · 100 ÷ 10 = 10 · 16 ÷ 4 = 4 · 14 ÷ 7 = 2 · 3 ÷ 1 = 3 · 8 ÷ 8 = 1 · 88 ÷ 8 = 11 · 40 ÷ 5 = 8 · 7 ÷ 1 = 7 · 84 ÷ 7 = 12