



The Dinosaur Island Rescue

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Division · Reading level grades 1-2

Detective: _____ **Date:** _____

Someone snuck into the Dino Park and took the golden t-rex egg! Chief Ranger Rex needs our help. The Dino Patrol must track down the culprit.

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-Snatcher is _____

Possible suspects

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

NAME	RESCUE TOOL	SPECIAL GADGET	HAND SIGN	HEAD GEAR	BEST DEFENSE
Cole	Power Grapple	Radar Watch	Right Handed	Red Helmet	Banana Peel
Max	Bubble Blaster	Mini Drone	Left Handed	Red Helmet	Banana Peel
Maya	Mega Net	Radar Watch	Right Handed	Green Visor	Banana Peel
Jax	Power Grapple	Sound Booster	Right Handed	Green Visor	Squeaky Toy
Ben	Sticky Rope	Radar Watch	Left Handed	Red Helmet	Squeaky Toy
Zoe	Bubble Blaster	Radar Watch	Left Handed	Blue Cap	Squeaky Toy
Ivy	Bubble Blaster	Radar Watch	Left Handed	Red Helmet	Banana Peel
Kai	Jet Pack	Sound Booster	Right Handed	Red Helmet	Banana Peel
Emma	Power Grapple	Mini Drone	Right Handed	Blue Cap	Banana Peel
Ruby	Jet Pack	Mini Drone	Right Handed	Red Helmet	Banana Peel
Abby	Bubble Blaster	Sound Booster	Right Handed	Red Helmet	Banana Peel
Ava	Power Grapple	Laser Pointer	Right Handed	Red Helmet	Banana Peel
Toby	Mega Net	Sound Booster	Right Handed	Red Helmet	Sparkly Glitter
Leo	Bubble Blaster	Night Goggles	Left Handed	Green Visor	Squeaky Toy
Lily	Bubble Blaster	Mini Drone	Right Handed	Red Helmet	Banana Peel
Noah	Power Grapple	Radar Watch	Right Handed	Red Helmet	Sparkly Glitter
Cody	Sticky Rope	Laser Pointer	Right Handed	Green Visor	Squeaky Toy
Sam	Mega Net	Laser Pointer	Left Handed	Green Visor	Sparkly Glitter
Mia	Mega Net	Radar Watch	Left Handed	Green Visor	Sparkly Glitter
Ella	Jet Pack	Laser Pointer	Left Handed	Blue Cap	Sparkly Glitter
Luke	Power Grapple	Laser Pointer	Right Handed	Green Visor	Sparkly Glitter

CLUE 1
Fractions of a number

We find a scrap of paper on the trail. Only a small fraction of the map is left. Let us count the parts.

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

T																			
15	38	14	27	7	18	15	3	38	14	35	25	2	14	27	7	2	15		
40	27	14	18	21	12	7	12	25	35	2	7	14							

$3/8 \text{ of } 40 = \square \rightarrow \text{ T }$

$2/4 \text{ of } 70 = \square \rightarrow \text{ R }$

$1/10 \text{ of } 180 = \square \rightarrow \text{ A }$

$2/4 \text{ of } 50 = \square \rightarrow \text{ D }$

$2/6 \text{ of } 42 = \square \rightarrow \text{ E }$

$1/4 \text{ of } 152 = \square \rightarrow \text{ H }$

$8/10 \text{ of } 50 = \square \rightarrow \text{ U }$

$3/4 \text{ of } 4 = \square \rightarrow \text{ C }$

$3/5 \text{ of } 45 = \square \rightarrow \text{ S }$

$4/8 \text{ of } 4 = \square \rightarrow \text{ O }$

$5/10 \text{ of } 14 = \square \rightarrow \text{ N }$

$1/6 \text{ of } 72 = \square \rightarrow \text{ I }$

$1/8 \text{ of } 168 = \square \rightarrow \text{ M }$

Scratch space:

CLUE 2
Order of operations

To unlock the jungle gate we must press the buttons in the right order. First do this then do that.

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

T						T										T					
70	7	19	39	40	50	70	29	7	19	59	60	39	19	76	70	7	19	35	59		
				T					T							T					
59	35	22	7	70	7	50	40	76	70	67	22	59	50	68	35	70					

$52 + 6 \times 3 = \square \rightarrow \text{**T**}$

$5 \times 12 - 1 = \square \rightarrow \text{**R**}$

$12 \times 7 - 24 = \square \rightarrow \text{**U**}$

$11 \times 7 - 1 = \square \rightarrow \text{**D**}$

$10 \times 7 - 2 = \square \rightarrow \text{**B**}$

$1 + 3 \times 6 = \square \rightarrow \text{**E**}$

$33 + 3 \times 2 = \square \rightarrow \text{**S**}$

$16 + 8 \times 3 = \square \rightarrow \text{**N**}$

$10 + 6 \times 2 = \square \rightarrow \text{**G**}$

$7 \times 5 - 6 = \square \rightarrow \text{**C**}$

$3 + 2 \times 2 = \square \rightarrow \text{**H**}$

$8 \times 12 - 29 = \square \rightarrow \text{**O**}$

$26 + 3 \times 8 = \square \rightarrow \text{**A**}$

$8 \times 6 - 13 = \square \rightarrow \text{**I**}$

Scratch space:

CLUE 3

Multiplication facts (1-12)

We see rows of baby dino tracks in the mud. There are five rows with three prints in each row.

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

T						T													
9	45	84	120	132	90	9	7	45	84	6	120	77	10	56	120	144	56	20	132

90	2	90	132	90	132	90	56	84	84	77	

$1 \times 9 = \square \rightarrow \text{[T]}$

$9 \times 10 = \square \rightarrow \text{[A]}$

$2 \times 1 = \square \rightarrow \text{[B]}$

$12 \times 7 = \square \rightarrow \text{[E]}$

$10 \times 12 = \square \rightarrow \text{[S]}$

$7 \times 11 = \square \rightarrow \text{[L]}$

$4 \times 5 = \square \rightarrow \text{[O]}$

$2 \times 3 = \square \rightarrow \text{[R]}$

$5 \times 2 = \square \rightarrow \text{[I]}$

$12 \times 12 = \square \rightarrow \text{[U]}$

$12 \times 11 = \square \rightarrow \text{[N]}$

$5 \times 9 = \square \rightarrow \text{[H]}$

$7 \times 1 = \square \rightarrow \text{[C]}$

$8 \times 7 = \square \rightarrow \text{[P]}$

Scratch space:

CLUE 4 Rounding

The radar screen is dusty. It only shows the distance rounded to the nearest ten miles.

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

W																
130	3000	2000	4300	20	2300	1700	5000	170	3000	1700	290	3000	70	2900	3000	500

30	500	170	5000	7000	5000	500	500	290	3000	30	1300	3000	2300	3000

Round 132 to the nearest ten → **W**

Round 1,707 to the nearest thousand → **F**

Round 4,261 to the nearest hundred → **O**

Round 3,094 to the nearest thousand → **E**

Round 294 to the nearest ten → **H**

Round 1,348 to the nearest hundred → **C**

Round 7,048 to the nearest thousand → **P**

Round 172 to the nearest ten → **R**

Round 29 to the nearest ten → **S**

Round 5,171 to the nearest thousand → **A**

Round 74 to the nearest ten → **L**

Round 2,274 to the nearest hundred → **N**

Round 493 to the nearest hundred → **T**

Round 2,902 to the nearest hundred → **M**

Round 23 to the nearest ten → **U**

Round 1,698 to the nearest hundred → **D**

Scratch space:

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

We need to share our dino treats equally among the baby raptors so they do not bite.

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:

$55 \div 11 = \square$

$56 \div 8 = \square$

$12 \div 4 = \square$

$8 \div 8 = \square$

$33 \div 3 = \square$

$48 \div 8 = \square$

$32 \div 4 = \square$

$108 \div 9 = \square$

$40 \div 10 = \square$

$80 \div 8 = \square$

$63 \div 7 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain uses a jet pack to fly over the wall, then flies a mini drone to spot the egg.
2. The villain fires a power grapple to swing inside, then looks at a radar watch for the time.
3. The villain uses a jet pack to fly over the wall, then uses a sound booster to listen.
4. The villain fires a power grapple to swing inside, then checks the dark with night goggles.
5. The villain blasts bubbles to distract everyone, then uses a sound booster to listen.
6. The villain shoots a sticky rope to climb up, then looks at a radar watch for the time.
7. The villain fires a power grapple to swing inside, then points a laser pointer to find the lock.
8. The villain uses a jet pack to fly over the wall, then points a laser pointer to find the lock.
9. The villain shoots a sticky rope to climb up, then flies a mini drone to spot the egg.
10. The villain throws a mega net over the gate, then points a laser pointer to find the lock.
11. The villain uses a jet pack to fly over the wall, then looks at a radar watch for the time.
12. The villain uses a jet pack to fly over the wall, then checks the dark with night goggles.

Answer Key

The Dinosaur Island Rescue

Culprit: Cole

Power Grapple · Radar Watch · Right Handed · Red Helmet · Banana Peel

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE SNATCHER DOES NOT USE A MINI DRONE"

$\frac{3}{8}$ of 40 = 15 (T) · $\frac{2}{4}$ of 70 = 35 (R) · $\frac{1}{10}$ of 180 = 18 (A) · $\frac{2}{4}$ of 50 = 25 (D) · $\frac{2}{6}$ of 42 = 14 (E) · $\frac{1}{4}$ of 152 = 38 (H) · $\frac{8}{10}$ of 50 = 40 (U) · $\frac{3}{4}$ of 4 = 3 (C) · $\frac{3}{5}$ of 45 = 27 (S) · $\frac{4}{8}$ of 4 = 2 (O) · $\frac{5}{10}$ of 14 = 7 (N) · $\frac{1}{6}$ of 72 = 12 (I) · $\frac{1}{8}$ of 168 = 21 (M)

Clue 2 (Order of operations): "THE SNATCHER USED THEIR RIGHT HAND TO GRAB IT"

$52 + 6 \times 3 = 70$ (T) · $5 \times 12 - 1 = 59$ (R) · $12 \times 7 - 24 = 60$ (U) · $11 \times 7 - 1 = 76$ (D) · $10 \times 7 - 2 = 68$ (B) · $1 + 3 \times 6 = 19$ (E) · $33 + 3 \times 2 = 39$ (S) · $16 + 8 \times 3 = 40$ (N) · $10 + 6 \times 2 = 22$ (G) · $7 \times 5 - 6 = 29$ (C) · $3 + 2 \times 2 = 7$ (H) · $8 \times 12 - 29 = 67$ (O) · $26 + 3 \times 8 = 50$ (A) · $8 \times 6 - 13 = 35$ (I)

Clue 3 (Multiplication facts (1-12)): "THE SNATCHER SLIPS UPON A BANANA PEEL"

$1 \times 9 = 9$ (T) · $9 \times 10 = 90$ (A) · $2 \times 1 = 2$ (B) · $12 \times 7 = 84$ (E) · $10 \times 12 = 120$ (S) · $7 \times 11 = 77$ (L) · $4 \times 5 = 20$ (O) · $2 \times 3 = 6$ (R) · $5 \times 2 = 10$ (I) · $12 \times 12 = 144$ (U) · $12 \times 11 = 132$ (N) · $5 \times 9 = 45$ (H) · $7 \times 1 = 7$ (C) · $8 \times 7 = 56$ (P)

Clue 4 (Rounding): "WE FOUND A RED HELMET STRAP AT THE SCENE"

Round 132 to the nearest ten = 130 (W) · Round 1,707 to the nearest thousand = 2000 (F) · Round 4,261 to the nearest hundred = 4300 (O) · Round 3,094 to the nearest thousand = 3000 (E) · Round 294 to the nearest ten = 290 (H) · Round 1,348 to the nearest hundred = 1300 (C) · Round 7,048 to the nearest thousand = 7000 (P) · Round 172 to the nearest ten = 170 (R) · Round 29 to the nearest ten = 30 (S) · Round 5,171 to the nearest thousand = 5000 (A) · Round 74 to the nearest ten = 70 (L) · Round 2,274 to the nearest hundred = 2300 (N) · Round 493 to the nearest hundred = 500 (T) · Round 2,902 to the nearest hundred = 2900 (M) · Round 23 to the nearest ten = 20 (U) · Round 1,698 to the nearest hundred = 1700 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Cole

$55 \div 11 = 5$ · $56 \div 8 = 7$ · $12 \div 4 = 3$ · $8 \div 8 = 1$ · $33 \div 3 = 11$ · $48 \div 8 = 6$ · $32 \div 4 = 8$ · $108 \div 9 = 12$ · $40 \div 10 = 4$ · $80 \div 8 = 10$ · $63 \div 7 = 9$