



The Jungle Map Caper

Grade 4 math · Multiplication, Multi-step word problems, Word problems, Rounding, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

The Sacred Emerald Map is missing! It was locked inside the golden temple chest. The sneaky Ruins Raider snatched it right before our camp woke up. Use your math skills to track down the raider before they find the hidden treasure city first!

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 Ruins Raider is _____

Possible suspects

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

NAME	JUNGLE TOOL	SURVIVAL BADGE	FLASHLIGHT GRIP	HEAD GEAR	FEAR FACTOR
Compass Cody	Grappling Hook	Star Gazing Badge	Right Handed Grip	Pith Helmet	Fear of Mud
Gecko Gabe	Machete Tool	First Aid Badge	Right Handed Grip	Safari Cap	Fear of Heights
Daring Danny	Climbing Rope	Campfire Badge	Right Handed Grip	Camo Bandana	Fear of Heights
Ranger Riley	Pocket Compass	First Aid Badge	Right Handed Grip	Pith Helmet	Fear of Bugs
Safari Sally	Binoculars	Knot Tying Badge	Right Handed Grip	Pith Helmet	Fear of Heights
Acorn Abby	Pocket Compass	Star Gazing Badge	Left Handed Grip	Pith Helmet	Fear of Bugs
Forest Felix	Pocket Compass	Map Reading Badge	Left Handed Grip	Safari Cap	Fear of Bugs
Scout Sam	Binoculars	First Aid Badge	Right Handed Grip	Camo Bandana	Fear of Heights
Boulder Ben	Pocket Compass	Star Gazing Badge	Right Handed Grip	Pith Helmet	Fear of Bugs
River Roger	Grappling Hook	Campfire Badge	Right Handed Grip	Camo Bandana	Fear of Bugs
Canyon Cara	Climbing Rope	First Aid Badge	Left Handed Grip	Pith Helmet	Fear of Bugs
Pathfinder Penny	Pocket Compass	Campfire Badge	Left Handed Grip	Pith Helmet	Fear of Bugs
Trekker Tess	Binoculars	Campfire Badge	Left Handed Grip	Pith Helmet	Fear of Mud
Hiker Henry	Pocket Compass	Campfire Badge	Right Handed Grip	Pith Helmet	Fear of Heights
Tracker Tom	Machete Tool	Star Gazing Badge	Left Handed Grip	Camo Bandana	Fear of Mud
Wilderness Wyatt	Grappling Hook	Knot Tying Badge	Right Handed Grip	Safari Cap	Fear of Heights
Jungle Julia	Grappling Hook	Knot Tying Badge	Left Handed Grip	Pith Helmet	Fear of Bugs
Valley Valerie	Machete Tool	Campfire Badge	Right Handed Grip	Safari Cap	Fear of Heights
Adventure Alex	Grappling Hook	First Aid Badge	Left Handed Grip	Camo Bandana	Fear of Mud
Mapmaker Mia	Pocket Compass	Knot Tying Badge	Left Handed Grip	Pith Helmet	Fear of Heights
Fern Fiona	Machete Tool	Star Gazing Badge	Left Handed Grip	Pith Helmet	Fear of Bugs

Multiplication facts (1-12)

To pack our expedition bags, we need to count our water bottles. They are packed in boxes with equal rows. Help us multiply to find the total so we can search the first camp.

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

40 64 3 18 42 35 7 3 18 64 42 44 120 28 66 120 28 40

40 25 35 120 132 36 42 7 132 3

$5 \times 8 = \boxed{} \rightarrow \boxed{\text{T}}$

$$5 \times 5 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$3 \times 1 = \boxed{} \rightarrow \mathbf{E}$$

$12 \times 11 = \boxed{} \rightarrow \mathbf{G}$

$7 \times 1 = \boxed{} \rightarrow \boxed{\text{D}}$

$2 \times 9 = \boxed{} \rightarrow \mathbf{R}$

$$4 \times 7 = \boxed{} \rightarrow \boxed{0}$$

$$7 \times 5 = \boxed{} \rightarrow \boxed{} \mid$$

$$8 \times 8 = \boxed{} \rightarrow \boxed{\text{H}}$$

$7 \times 6 = \square \rightarrow \boxed{\mathbf{A}}$

$9 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$11 \times 6 = \boxed{} \rightarrow \boxed{\text{K}}$

$11 \times 4 = \boxed{} \rightarrow \boxed{\text{S}}$

$12 \times 10 = \boxed{} \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 2

Multi-step word problems

We found some dropped gear along the river bank. First, we need to add up all the snacks we started with, and then subtract the ones we lost. Complete these steps to inspect the wet footprints.

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

A witness saw the villain was L D D G R I P .

83 56 40 11 44 82 39 56

Lead Explorer earned 8 compass in each of 6 rounds, plus 48 bonus compass. Then 13 compass were lost. How many compass are left?

Answer: → L

There were 102 flashlight in all. 2 Adventure Squad used 40 flashlight each. The other 2 Adventure Squad shared the rest equally. How many flashlight did each of the other Adventure Squad get?

Answer: → T

Lead Explorer earned 4 canteen in each of 4 rounds, plus 31 bonus canteen. Then 3 canteen were lost. How many canteen are left?

Answer: → H

There were 123 flashlight in all. 1 Adventure Squad used 11 flashlight each. The other 2 Adventure Squad shared the rest equally. How many flashlight did each of the other Adventure Squad get?

Answer: → E

There were 155 backpack in all. 1 Adventure Squad used 35 backpack each. The other 3 Adventure Squad shared the rest equally. How many backpack did each of the other Adventure Squad get?

Answer: → F

There were 831 flashlight in all. 11 flashlight were set aside. The rest were shared equally among 10 Adventure Squad. How many flashlight did each get?

Answer: → A

There were 259 backpack in all. 25 backpack were set aside. The rest were shared equally among 6 Adventure Squad. How many backpack did each get?

Answer: → N

Scratch space:

CLUE 3

Word problems

A friendly monkey blocked our path and wanted some of our bananas. Solve this word problem about sharing snacks with the jungle animals to get past the bridge.

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

Someone scared the villain off with F F G S .

38 26 39 68 18 38 35 7

There were 57 banana. 19 were used up. How many banana are left?

Answer: → F

There were 46 compass. 28 were used up. How many compass are left?

Answer: → O

Lead Explorer found 12 compass yesterday and 23 more today. How many compass in all?

Answer: → B

There were 40 compass. 14 were used up. How many compass are left?

Answer: → E

Lead Explorer found 3 banana yesterday and 4 more today. How many banana in all?

Answer: → U

There were 57 flashlight. 18 were used up. How many flashlight are left?

Answer: → A

There were 98 canteen. 30 were used up. How many canteen are left?

Answer: → R

Scratch space:

CLUE 4 Rounding

We found a broken GPS device in the bushes. Its screen is cracked, so it only shows our altitude rounded to the nearest ten feet. Round these numbers to unlock the device.

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

T																
5000	300	1100	50	90	2900	70	1100	50	70	50	370	430	430	1100	70	90
	T						T						T		T	
200	5000	50	90	20	430	2900	5000	300	300	1100	7000	1700	1100	5000	200	5000

Round 4,972 to the nearest thousand → **T**

Round 54 to the nearest ten → **R**

Round 88 to the nearest ten → **A**

Round 367 to the nearest ten → **O**

Round 242 to the nearest hundred → **S**

Round 297 to the nearest hundred → **H**

Round 22 to the nearest ten → **W**

Round 72 to the nearest ten → **D**

Round 1,100 to the nearest hundred → **E**

Round 6,550 to the nearest thousand → **L**

Round 432 to the nearest ten → **P**

Round 2,932 to the nearest hundred → **I**

Round 1,679 to the nearest hundred → **M**

Scratch space:

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

We need to split our team into equal search groups to explore the dark cave safely. Divide the rangers evenly so we can check the cave wall for 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:

$80 \div 10 = \boxed{}$

$12 \div 2 = \boxed{}$

$63 \div 9 = \boxed{}$

$55 \div 11 = \boxed{}$

$3 \div 3 = \boxed{}$

$3 \div 1 = \boxed{}$

$11 \div 1 = \boxed{}$

$9 \div 1 = \boxed{}$

$48 \div 12 = \boxed{}$

$60 \div 5 = \boxed{}$

$24 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain cuts through the thick vines using a machete tool, then ties a quick rescue knot.
2. The villain checks the trail direction using a pocket compass, then studies the ancient landmarks.
3. The villain swings across the river using a grappling hook, then bandages a scraped knee.
4. The villain checks the trail direction using a pocket compass, then ties a quick rescue knot.
5. The villain spots the hidden path using binoculars, then ties a quick rescue knot.
6. The villain checks the trail direction using a pocket compass, then points out the north star.
7. The villain checks the trail direction using a pocket compass, then lights a small campfire.
8. The villain cuts through the thick vines using a machete tool, then points out the north star.
9. The villain swings across the river using a grappling hook, then points out the north star.
10. The villain scales the steep stone wall using a climbing rope, then bandages a scraped knee.
11. The villain cuts through the thick vines using a machete tool, then bandages a scraped knee.
12. The villain checks the trail direction using a pocket compass, then bandages a scraped knee.

Answer Key

The Jungle Map Caper

Culprit: Canyon Cara

Climbing Rope · First Aid Badge · Left Handed Grip · Pith Helmet · Fear of Bugs

Trail: Start 21 → Clue 1 17 → Clue 2 8 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE RAIDER HAS NO KNOT TYING BADGE"

$5 \times 8 = 40$ (T) · $5 \times 5 = 25$ (Y) · $3 \times 1 = 3$ (E) · $12 \times 11 = 132$ (G) · $7 \times 1 = 7$ (D) · $2 \times 9 = 18$ (R) · $4 \times 7 = 28$ (O) · $7 \times 5 = 35$ (I) · $8 \times 8 = 64$ (H) · $7 \times 6 = 42$ (A) · $9 \times 4 = 36$ (B) · $11 \times 6 = 66$ (K) · $11 \times 4 = 44$ (S) · $12 \times 10 = 120$ (N)

Clue 2 (Multi-step word problems): "LEFT HANDED GRIP"

Lead Explorer earned 8 compass in each of 6 rounds, plus 48 bonus compass. Then 13 compass were lost. How many compass are left? = 83 (L) · There were 102 flashlight in all. 2 Adventure Squad used 40 flashlight each. The other 2 Adventure Squad shared the rest equally. How many flashlight did each of the other Adventure Squad get? = 11 (T) · Lead Explorer earned 4 canteen in each of 4 rounds, plus 31 bonus canteen. Then 3 canteen were lost. How many canteen are left? = 44 (H) · There were 123 flashlight in all. 1 Adventure Squad used 11 flashlight each. The other 2 Adventure Squad shared the rest equally. How many flashlight did each of the other Adventure Squad get? = 56 (E) · There were 155 backpack in all. 1 Adventure Squad used 35 backpack each. The other 3 Adventure Squad shared the rest equally. How many backpack did each of the other Adventure Squad get? = 40 (F) · There were 831 flashlight in all. 11 flashlight were set aside. The rest were shared equally among 10 Adventure Squad. How many flashlight did each get? = 82 (A) · There were 259 backpack in all. 25 backpack were set aside. The rest were shared equally among 6 Adventure Squad. How many backpack did each get? = 39 (N)

Clue 3 (Word problems): "FEAR OF BUGS"

There were 57 banana. 19 were used up. How many banana are left? = 38 (F) · There were 46 compass. 28 were used up. How many compass are left? = 18 (O) · Lead Explorer found 12 compass yesterday and 23 more today. How many compass in all? = 35 (B) · There were 40 compass. 14 were used up. How many compass are left? = 26 (E) · Lead Explorer found 3 banana yesterday and 4 more today. How many banana in all? = 7 (U) · There were 57 flashlight. 18 were used up. How many flashlight are left? = 39 (A) · There were 98 canteen. 30 were used up. How many canteen are left? = 68 (R)

Clue 4 (Rounding): "THE RAIDER DROPPED A STRAW PITH HELMET STRAP"

Round 4,972 to the nearest thousand = 5000 (T) · Round 54 to the nearest ten = 50 (R) · Round 88 to the nearest ten = 90 (A) · Round 367 to the nearest ten = 370 (O) · Round 242 to the nearest hundred = 200 (S) · Round 297 to the nearest hundred = 300 (H) · Round 22 to the nearest ten = 20 (W) · Round 72 to the nearest ten = 70 (D) · Round 1,100 to the nearest hundred = 1100 (E) · Round 6,550 to the nearest thousand = 7000 (L) · Round 432 to the nearest ten = 430 (P) · Round 2,932 to the nearest hundred = 2900 (I) · Round 1,679 to the nearest hundred = 1700 (M)

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

$80 \div 10 = 8$ · $12 \div 2 = 6$ · $63 \div 9 = 7$ · $55 \div 11 = 5$ · $3 \div 3 = 1$ · $3 \div 1 = 3$ · $11 \div 1 = 11$ · $9 \div 1 = 9$ · $48 \div 12 = 4$ · $60 \div 5 = 12$ · $24 \div 12 = 2$