



Mystery at Sunken Temple

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

Detective: _____ Date: _____

Someone snuck into the temple ruins during the night and snatched a valuable artifact. Use your detective skills to find the thief before they vanish into the jungle!

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 Rogue Explorer is _____

Possible suspects

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

NAME	SECRET GEAR	ARTIFACT	STANCE	BANDANA COLOR	TRAP DISARMER
Lara	Grappling Hook	Jade Compass	Right Handed	Emerald Bandana	Water Splash
Marco	Rope Ladder	Crystal Map	Right Handed	Emerald Bandana	Mirror Flash
Roald	Flash Grenade	Ruby Skull	Right Handed	Emerald Bandana	Mirror Flash
Diego	Grappling Hook	Silver Mask	Right Handed	Emerald Bandana	Water Splash
Elena	Flash Grenade	Silver Mask	Right Handed	Emerald Bandana	Mirror Flash
Percy	Flash Grenade	Crystal Map	Right Handed	Emerald Bandana	Water Splash
Sally	Glider Wing	Golden Idol	Right Handed	Sapphire Bandana	Mirror Flash
Thor	Rope Ladder	Crystal Map	Right Handed	Sapphire Bandana	Water Splash
Vasco	Rope Ladder	Silver Mask	Right Handed	Emerald Bandana	Water Splash
Marcus	Grappling Hook	Silver Mask	Left Handed	Emerald Bandana	Mirror Flash
Hiram	Grappling Hook	Ruby Skull	Right Handed	Crimson Bandana	Whistle Blow
Gertrude	Rope Ladder	Silver Mask	Left Handed	Crimson Bandana	Water Splash
Jacques	Flash Grenade	Golden Idol	Right Handed	Emerald Bandana	Mirror Flash
Amelia	Rope Ladder	Silver Mask	Left Handed	Emerald Bandana	Water Splash
Nellie	Smoke Bomb	Crystal Map	Right Handed	Sapphire Bandana	Mirror Flash
Sydney	Glider Wing	Silver Mask	Left Handed	Emerald Bandana	Water Splash
Nate	Grappling Hook	Silver Mask	Right Handed	Crimson Bandana	Water Splash
Indy	Grappling Hook	Ruby Skull	Left Handed	Sapphire Bandana	Water Splash
Freya	Grappling Hook	Jade Compass	Right Handed	Sapphire Bandana	Water Splash
Marion	Flash Grenade	Golden Idol	Right Handed	Emerald Bandana	Water Splash
Henry	Flash Grenade	Ruby Skull	Left Handed	Emerald Bandana	Whistle Blow

CLUE 1

Multiplication facts (1-12)

You count the supply crates packed into equal rows near the temple camp.

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

T									T								T
22	60	5	4	10	4	12	5	14	22	81	132	5	4	99	132	22	
					T												
14	11	66	66	56	22	60	5	88	132	54	81	5	99	36	81	132	54

$2 \times 11 = \square \rightarrow \boxed{\text{T}}$

$11 \times 12 = \square \rightarrow \boxed{\text{O}}$

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

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

$7 \times 8 = \square \rightarrow \boxed{\text{Y}}$

$1 \times 5 = \square \rightarrow \boxed{\text{E}}$

$10 \times 1 = \square \rightarrow \boxed{\text{U}}$

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

$6 \times 10 = \square \rightarrow \boxed{\text{H}}$

$9 \times 6 = \square \rightarrow \boxed{\text{L}}$

$1 \times 12 = \square \rightarrow \boxed{\text{P}}$

$4 \times 9 = \square \rightarrow \boxed{\text{I}}$

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

$1 \times 11 = \square \rightarrow \boxed{\text{A}}$

$11 \times 8 = \square \rightarrow \boxed{\text{G}}$

$11 \times 9 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 2
Rounding

The jungle digital scanner gives a rough estimate rounded to the nearest ten.

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

T 1100	30	20	70	110	5000	2300	90	7000	T 1100	30	20	5000	370	T 1100	30	20		
3000	2900	2300	7000	500	T 1100	30	20	7000	90	90	7000	2000	30	T 1100	30	2900	500	370

Round 1,076 to the nearest hundred

→

T

Round 2,913 to the nearest hundred

→

A

Round 2,350 to the nearest thousand

→

G

Round 71 to the nearest ten

→

C

Round 20 to the nearest ten

→

E

Round 484 to the nearest hundred

→

N

Round 3,312 to the nearest thousand

→

M

Round 4,576 to the nearest thousand

→

L

Round 6,928 to the nearest thousand

→

I

Round 2,307 to the nearest hundred

→

P

Round 372 to the nearest ten

→

D

Round 110 to the nearest ten

→

U

Round 88 to the nearest ten

→

R

Round 28 to the nearest ten

→

H

Scratch space:

CLUE 3

Addition

You add up all the coins recovered from the ancient stone chest.

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

A							A							A		
8853	9838	4164	4337	8541	2301	6944	8853	5002	5447	6512	7266	9107	9853	8853	7266	9781
											A				A	
6994	6512	4087	6350	5447	5002	9781	5447	6350	4337	9853	9853	8853	4337	7477	7851	8853
															8541	2301

$3013 + 5840 = \square \rightarrow \text{A}$

$1277 + 1024 = \square \rightarrow \text{K}$

$2183 + 2819 = \square \rightarrow \text{T}$

$4197 + 2747 = \square \rightarrow \text{W}$

$3335 + 4516 = \square \rightarrow \text{B}$

$3769 + 6069 = \square \rightarrow \text{Q}$

$3597 + 4944 = \square \rightarrow \text{C}$

$3274 + 3992 = \square \rightarrow \text{S}$

$4309 + 5472 = \square \rightarrow \text{H}$

$1600 + 2564 = \square \rightarrow \text{U}$

$4158 + 3319 = \square \rightarrow \text{N}$

$6205 + 3648 = \square \rightarrow \text{L}$

$4571 + 2423 = \square \rightarrow \text{D}$

$4194 + 2318 = \square \rightarrow \text{R}$

$3471 + 1976 = \square \rightarrow \text{E}$

$4727 + 4380 = \square \rightarrow \text{P}$

$1289 + 2798 = \square \rightarrow \text{O}$

$4371 + 1979 = \square \rightarrow \text{V}$

$2431 + 1906 = \square \rightarrow \text{I}$

Scratch space:

CLUE 4
Subtraction

You calculate how many trail torches remain after taking some away.

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

A						A				A			A		A
2189	8022	5080	6611	5080	2384	2189	4754	5798	1675	2189	8022	5798	2189	8022	2189
5141	6179	1675	5080	2384	5141	2384	8155	5453	5080	6179	8022	7916	7869	5080	
1675	7321	1079	7869	5080	1079										

$4670 - 2481 = \square \rightarrow \boxed{\text{A}}$

$9418 - 1263 = \square \rightarrow \boxed{\text{O}}$

$6776 - 1635 = \square \rightarrow \boxed{\text{F}}$

$5733 - 280 = \square \rightarrow \boxed{\text{Z}}$

$6588 - 4204 = \square \rightarrow \boxed{\text{R}}$

$12822 - 4906 = \square \rightarrow \boxed{\text{T}}$

$10494 - 4696 = \square \rightarrow \boxed{\text{D}}$

$5709 - 629 = \square \rightarrow \boxed{\text{E}}$

$9828 - 1959 = \square \rightarrow \boxed{\text{H}}$

$11491 - 4880 = \square \rightarrow \boxed{\text{M}}$

$2120 - 1041 = \square \rightarrow \boxed{\text{S}}$

$6044 - 1290 = \square \rightarrow \boxed{\text{L}}$

$9681 - 1659 = \square \rightarrow \boxed{\text{N}}$

$2428 - 753 = \square \rightarrow \boxed{\text{B}}$

$8388 - 2209 = \square \rightarrow \boxed{\text{I}}$

$8597 - 1276 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

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

You share the remaining canteen drops equally among the expedition crew.

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:

$30 \div 10 = \square$

$11 \div 11 = \square$

$90 \div 9 = \square$

$49 \div 7 = \square$

$33 \div 3 = \square$

$2 \div 1 = \square$

$24 \div 6 = \square$

$36 \div 6 = \square$

$36 \div 4 = \square$

$88 \div 11 = \square$

$120 \div 10 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain swung past using a grappling hook, then pocketed the silver mask.
2. The villain climbed up with a rope ladder, then snatched the ruby skull.
3. The villain stunned guards with a flash grenade, then stole the crystal map.
4. The villain climbed up with a rope ladder, then swiped the jade compass.
5. The villain climbed up with a rope ladder, then pocketed the silver mask.
6. The villain swung past using a grappling hook, then stole the crystal map.
7. The villain stunned guards with a flash grenade, then swiped the jade compass.
8. The villain glided down with a glider wing, then grabbed the golden idol.
9. The villain glided down with a glider wing, then pocketed the silver mask.
10. The villain swung past using a grappling hook, then swiped the jade compass.
11. The villain swung past using a grappling hook, then snatched the ruby skull.
12. The villain stunned guards with a flash grenade, then pocketed the silver mask.

Answer Key

Mystery at Sunken Temple

Culprit: Vasco

Rope Ladder · Silver Mask · Right Handed · Emerald Bandana · Water Splash

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SUSPECT DOES NOT CARRY THE GOLDEN IDOL"

$2 \times 11 = 22$ (T) · $11 \times 12 = 132$ (O) · $7 \times 2 = 14$ (C) · $4 \times 1 = 4$ (S) · $7 \times 8 = 56$ (Y) · $1 \times 5 = 5$ (E) · $10 \times 1 = 10$ (U) · $9 \times 9 = 81$ (D) · $6 \times 10 = 60$ (H) · $9 \times 6 = 54$ (L) · $1 \times 12 = 12$ (P) · $4 \times 9 = 36$ (I) · $11 \times 6 = 66$ (R) · $1 \times 11 = 11$ (A) · $11 \times 8 = 88$ (G) · $11 \times 9 = 99$ (N)

Clue 2 (Rounding): "THE CULPRIT HELD THE MAP IN THEIR RIGHT HAND"

Round 1,076 to the nearest hundred = 1100 (T) · Round 2,913 to the nearest hundred = 2900 (A) · Round 2,350 to the nearest thousand = 2000 (G) · Round 71 to the nearest ten = 70 (C) · Round 20 to the nearest ten = 20 (E) · Round 484 to the nearest hundred = 500 (N) · Round 3,312 to the nearest thousand = 3000 (M) · Round 4,576 to the nearest thousand = 5000 (L) · Round 6,928 to the nearest thousand = 7000 (I) · Round 2,307 to the nearest hundred = 2300 (P) · Round 372 to the nearest ten = 370 (D) · Round 110 to the nearest ten = 110 (U) · Round 88 to the nearest ten = 90 (R) · Round 28 to the nearest ten = 30 (H)

Clue 3 (Addition): "A QUICK WATER SPLASH DROVE THE VILLAIN BACK"

$3013 + 5840 = 8853$ (A) · $1277 + 1024 = 2301$ (K) · $2183 + 2819 = 5002$ (T) · $4197 + 2747 = 6944$ (W) · $3335 + 4516 = 7851$ (B) · $3769 + 6069 = 9838$ (Q) · $3597 + 4944 = 8541$ (C) · $3274 + 3992 = 7266$ (S) · $4309 + 5472 = 9781$ (H) · $1600 + 2564 = 4164$ (U) · $4158 + 3319 = 7477$ (N) · $6205 + 3648 = 9853$ (L) · $4571 + 2423 = 6994$ (D) · $4194 + 2318 = 6512$ (R) · $3471 + 1976 = 5447$ (E) · $4727 + 4380 = 9107$ (P) · $1289 + 2798 = 4087$ (O) · $4371 + 1979 = 6350$ (V) · $2431 + 1906 = 4337$ (I)

Clue 4 (Subtraction): "AN EMERALD BANDANA FIBER FROZE IN THE BUSHES"

$4670 - 2481 = 2189$ (A) · $9418 - 1263 = 8155$ (O) · $6776 - 1635 = 5141$ (F) · $5733 - 280 = 5453$ (Z) · $6588 - 4204 = 2384$ (R) · $12822 - 4906 = 7916$ (T) · $10494 - 4696 = 5798$ (D) · $5709 - 629 = 5080$ (E) · $9828 - 1959 = 7869$ (H) · $11491 - 4880 = 6611$ (M) · $2120 - 1041 = 1079$ (S) · $6044 - 1290 = 4754$ (L) · $9681 - 1659 = 8022$ (N) · $2428 - 753 = 1675$ (B) · $8388 - 2209 = 6179$ (I) · $8597 - 1276 = 7321$ (U)

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

$30 \div 10 = 3$ · $11 \div 11 = 1$ · $90 \div 9 = 10$ · $49 \div 7 = 7$ · $33 \div 3 = 11$ · $2 \div 1 = 2$ · $24 \div 6 = 4$ · $36 \div 6 = 6$ · $36 \div 4 = 9$ · $88 \div 11 = 8$ · $120 \div 10 = 12$