The Lost Sapphire of Temple Peak

Grade 5 math · Rounding, Multi-step word problems, Word problems, Fractions of a number, Missing addends · Reading level grades 5-6

Detective: _____ **Date:** _____

The Golden Beetle idol has been snatched from the central altar of Mount Astra. A rogue explorer sneaked past the ancient traps, left behind mysterious clues, and vanished into the jungle. Help Detective Maya follow the trail and unmask 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 tomb raider is _____

Possible suspects

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

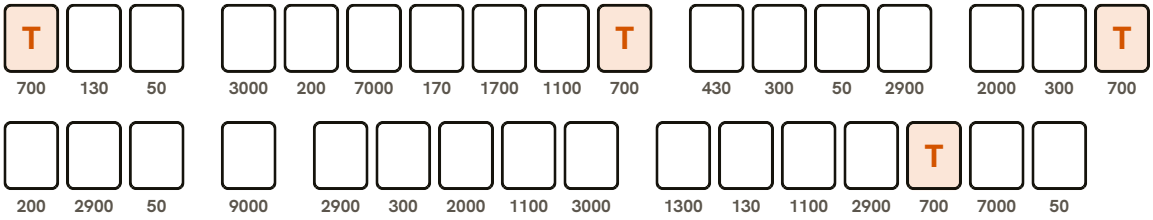
NAME	EXPLORATION TOOL	SPECIAL GADGET	DOMINANT HAND	BANDANA COLOR	DISTRACTION ITEM
Agent Frost	Grappling Hook	Smoke Flare	Right-handed	Crimson Red	Mirror Flash
Scout Miller	Compass Torch	Sonic Whistle	Left-handed	Crimson Red	Mirror Flash
Scholar Penn	Compass Torch	Sonic Whistle	Right-handed	Crimson Red	Mirror Flash
Dr Elena Gomez	Climbing Claws	Mini Drone	Right-handed	Crimson Red	Mirror Flash
Pilot Vance	Grappling Hook	Decoder Ring	Left-handed	Crimson Red	Mirror Flash
Dr Clara Cruz	Machete	Night Goggles	Left-handed	Crimson Red	Mirror Flash
Ranger Bell	Climbing Claws	Smoke Flare	Left-handed	Golden Yellow	Mirror Flash
Scholar Vance	Compass Torch	Night Goggles	Left-handed	Cobalt Blue	Mirror Flash
Professor Shaw	Grappling Hook	Smoke Flare	Left-handed	Golden Yellow	Chili Powder
Navigator Holt	Climbing Claws	Decoder Ring	Left-handed	Crimson Red	Mirror Flash
Pilot Sterling	Glider Pack	Mini Drone	Right-handed	Golden Yellow	Mirror Flash
Ranger Thorne	Machete	Mini Drone	Right-handed	Crimson Red	Loud Bell
Professor Vance	Compass Torch	Night Goggles	Right-handed	Crimson Red	Chili Powder
Explorer Blair	Glider Pack	Mini Drone	Right-handed	Crimson Red	Loud Bell
Explorer Hayes	Machete	Decoder Ring	Right-handed	Golden Yellow	Chili Powder
Ranger Stone	Compass Torch	Mini Drone	Left-handed	Cobalt Blue	Mirror Flash
Tracker Reed	Glider Pack	Smoke Flare	Left-handed	Cobalt Blue	Chili Powder
Scout Mercer	Compass Torch	Decoder Ring	Left-handed	Crimson Red	Chili Powder
Archeologist Finch	Grappling Hook	Smoke Flare	Right-handed	Golden Yellow	Loud Bell
Scout Rhodes	Climbing Claws	Mini Drone	Left-handed	Crimson Red	Mirror Flash
Navigator Ross	Compass Torch	Smoke Flare	Left-handed	Crimson Red	Chili Powder

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CLUE 1 Rounding

Maya inspects the supply crates outside the ruins to count how many rations were looted during the getaway.

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



Round 700 to the nearest hundred ☐ → T

Round 172 to the nearest ten ☐ → P

Round 2,668 to the nearest thousand ☐ → C

Round 262 to the nearest hundred ☐ → O

Round 1,846 to the nearest thousand ☐ → N

Round 1,105 to the nearest hundred ☐ → I

Round 1,696 to the nearest hundred ☐ → R

Round 48 to the nearest ten ☐ → E

Round 433 to the nearest ten ☐ → D

Round 2,886 to the nearest hundred ☐ → S

Round 1,339 to the nearest hundred ☐ → W

Round 8,648 to the nearest thousand ☐ → A

Round 7,239 to the nearest thousand ☐ → L

Round 175 to the nearest hundred ☐ → U

Round 129 to the nearest ten ☐ → H

Scratch space:

CLUE 2 Multi-step word problems

> To open the locked outer gate, Maya must calculate the total energy needed across several steps to power the generator.

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
17	19	45	10	80	51	67		19	

.

Lead explorer collected 57 ancient coins in the morning and 45 ancient coins in the afternoon, then split them equally among 6 expedition team. How many ancient coins did each get?

Answer: ☐ → **L**

Lead explorer earned 3 bronze keys in each of 4 rounds, plus 1 bonus bronze keys. Then 3 bronze keys were lost. How many bronze keys are left?

Answer: ☐ → **T**

There were 220 bronze keys in all. 1 expedition team used 16 bronze keys each. The other 4 expedition team shared the rest equally. How many bronze keys did each of the other expedition team get?

Answer: ☐ → **A**

There were 643 carved scarabs in all. 40 carved scarabs were set aside. The rest were shared equally among 9 expedition team. How many carved scarabs did each get?

Answer: ☐ → **N**

Lead explorer collected 8 bronze keys in the morning and 392 bronze keys in the afternoon, then split them equally among 5 expedition team. How many bronze keys did each get?

Answer: ☐ → **H**

Lead explorer collected 33 map fragments in the morning and 5 map fragments in the afternoon, then split them equally among 2 expedition team. How many map fragments did each get?

Answer: ☐ → **E**

There were 196 ancient coins in all. 2 expedition team used 8 ancient coins each. The other 4 expedition team shared the rest equally. How many ancient coins did each of the other expedition team get?

Answer: ☐ → **F**

Scratch space:

CLUE 3 Word problems

The ancient altar radar screen displays approximate distance numbers rounded to the nearest hundred.

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

Someone scared the villain off with

M									S	H
76	67	90	90	22	90	91	54	75		

.

Lead explorer found 73 map fragments yesterday and 3 more today. How many map fragments in all?

Answer: ☐ → M

Lead explorer lined up 10 rows of 9 bronze keys. How many bronze keys in all?

Answer: ☐ → R

There were 81 bronze keys. 6 were used up. How many bronze keys are left?

Answer: ☐ → A

There were 97 bronze keys. 30 were used up. How many bronze keys are left?

Answer: ☐ → I

Lead explorer found 71 map fragments yesterday and 20 more today. How many map fragments in all?

Answer: ☐ → F

Lead explorer lined up 9 rows of 6 ruby gems. How many ruby gems in all?

Answer: ☐ → L

Lead explorer found 13 carved scarabs yesterday and 9 more today. How many carved scarabs in all?

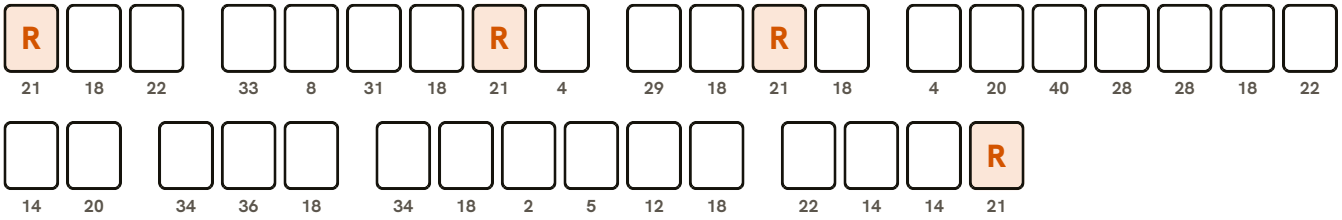
Answer: ☐ → O

Scratch space:

CLUE 4 Fractions of a number

Maya checks the ancient stone map wheel where only a fraction of the carved symbols are illuminated.

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



1/3 of 63 = ☐ → R

1/3 of 84 = ☐ → G

2/10 of 20 = ☐ → S

1/5 of 25 = ☐ → P

2/8 of 116 = ☐ → W

3/5 of 55 = ☐ → F

2/10 of 110 = ☐ → D

4/5 of 45 = ☐ → H

4/10 of 30 = ☐ → L

2/4 of 40 = ☐ → N

4/10 of 5 = ☐ → M

4/10 of 100 = ☐ → A

2/8 of 124 = ☐ → B

2/4 of 36 = ☐ → E

8/10 of 10 = ☐ → I

2/10 of 70 = ☐ → O

4/10 of 85 = ☐ → T

Scratch space:

CLUE 5 Missing addends - the last clue

> Maya weighs decorative idol stones on a balance scale to find how much weight is missing to trigger the door.

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:

16 + ___ = 22 ☐	20 + ___ = 31 ☐	36 + ___ = 41 ☐	35 + ___ = 44 ☐
30 + ___ = 38 ☐	26 + ___ = 27 ☐	5 + ___ = 15 ☐	9 + ___ = 13 ☐
4 + ___ = 6 ☐	21 + ___ = 33 ☐	13 + ___ = 16 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain scaled the stone wall with climbing claws, then disoriented bats with a sonic whistle.
2. The villain lit the dark passage with a compass torch, then mapped the room using a mini drone.
3. The villain glided off the ledge with a glider pack, then mapped the room using a mini drone.
4. The villain chopped dense vines with a machete, then disoriented bats with a sonic whistle.
5. The villain swung across the pit with a grappling hook, then cracked the door code with a decoder ring.
6. The villain scaled the stone wall with climbing claws, then mapped the room using a mini drone.
7. The villain chopped dense vines with a machete, then scouted the hallway with night goggles.
8. The villain lit the dark passage with a compass torch, then disoriented bats with a sonic whistle.
9. The villain scaled the stone wall with climbing claws, then scouted the hallway with night goggles.
10. The villain swung across the pit with a grappling hook, then scouted the hallway with night goggles.
11. The villain scaled the stone wall with climbing claws, then cracked the door code with a decoder ring.
12. The villain scaled the stone wall with climbing claws, then vanished into smoke from a smoke flare.

TEACHER / PARENT

Answer Key

The Lost Sapphire of Temple Peak

Culprit: Dr Clara Cruz

Machete · Night Goggles · Left-handed · Crimson Red · Mirror Flash

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE CULPRIT DOES NOT USE A SONIC WHISTLE"

Round 700 to the nearest hundred = 700 (T) · Round 172 to the nearest ten = 170 (P) · Round 2,668 to the nearest thousand = 3000 (C) · Round 262 to the nearest hundred = 300 (O) · Round 1,846 to the nearest thousand = 2000 (N) · Round 1,105 to the nearest hundred = 1100 (I) · Round 1,696 to the nearest hundred = 1700 (R) · Round 48 to the nearest ten = 50 (E) · Round 433 to the nearest ten = 430 (D) · Round 2,886 to the nearest hundred = 2900 (S) · Round 1,339 to the nearest hundred = 1300 (W) · Round 8,648 to the nearest thousand = 9000 (A) · Round 7,239 to the nearest thousand = 7000 (L) · Round 175 to the nearest hundred = 200 (U) · Round 129 to the nearest ten = 130 (H)

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

Lead explorer collected 57 ancient coins in the morning and 45 ancient coins in the afternoon, then split them equally among 6 expedition team. How many ancient coins did each get? = 17 (L) · Lead explorer earned 3 bronze keys in each of 4 rounds, plus 1 bonus bronze keys. Then 3 bronze keys were lost. How many bronze keys are left? = 10 (T) · There were 220 bronze keys in all. 1 expedition team used 16 bronze keys each. The other 4 expedition team shared the rest equally. How many bronze keys did each of the other expedition team get? = 51 (A) · There were 643 carved scarabs in all. 40 carved scarabs were set aside. The rest were shared equally among 9 expedition team. How many carved scarabs did each get? = 67 (N) · Lead explorer collected 8 bronze keys in the morning and 392 bronze keys in the afternoon, then split them equally among 5 expedition team. How many bronze keys did each get? = 80 (H) · Lead explorer collected 33 map fragments in the morning and 5 map fragments in the afternoon, then split them equally among 2 expedition team. How many map fragments did each get? = 19 (E) · There were 196 ancient coins in all. 2 expedition team used 8 ancient coins each. The other 4 expedition team shared the rest equally. How many ancient coins did each of the other expedition team get? = 45 (F)

Clue 3 (Word problems): "MIRROR FLASH"

Lead explorer found 73 map fragments yesterday and 3 more today. How many map fragments in all? = 76 (M) · Lead explorer lined up 10 rows of 9 bronze keys. How many bronze keys in all? = 90 (R) · There were 81 bronze keys. 6 were used up. How many bronze keys are left? = 75 (A) · There were 97 bronze keys. 30 were used up. How many bronze keys are left? = 67 (I) · Lead explorer found 71 map fragments yesterday and 20 more today. How many map fragments in all? = 91 (F) · Lead explorer lined up 9 rows of 6 ruby gems. How many ruby gems in all? = 54 (L) · Lead explorer found 13 carved scarabs yesterday and 9 more today. How many carved scarabs in all? = 22 (O)

Clue 4 (Fractions of a number): "RED FIBERS WERE SNAGGED ON THE TEMPLE DOOR"

1/3 of 63 = 21 (R) · 1/3 of 84 = 28 (G) · 2/10 of 20 = 4 (S) · 1/5 of 25 = 5 (P) · 2/8 of 116 = 29 (W) · 3/5 of 55 = 33 (F) · 2/10 of 110 = 22 (D) · 4/5 of 45 = 36 (H) · 4/10 of 30 = 12 (L) · 2/4 of 40 = 20 (N) · 4/10 of 5 = 2 (M) · 4/10 of 100 = 40 (A) · 2/8 of 124 = 31 (B) · 2/4 of 36 = 18 (E) · 8/10 of 10 = 8 (I) · 2/10 of 70 = 14 (O) · 4/10 of 85 = 34 (T)

Clue 5 (Missing addends): surviving statement is box 7 → Dr Clara Cruz

16 + ___ = 22 = 6 · 20 + ___ = 31 = 11 · 36 + ___ = 41 = 5 · 35 + ___ = 44 = 9 · 30 + ___ = 38 = 8 · 26 + ___ = 27 = 1 · 5 + ___ = 15 = 10 · 9 + ___ = 13 = 4 · 4 + ___ = 6 = 2 · 21 + ___ = 33 = 12 · 13 + ___ = 16 = 3