



The Mystery of the Astro-Dome Bandit

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

Detective: _____ Date: _____

Someone sneaked into the Astro-Dome and snatched the rare golden Moon-Peach! Chief Botanist Cosmo needs your help. Look at the data pads, check the clues, and find the space bandit!

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 space bandit is _____

Possible suspects

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

NAME	SPACE GEAR	HELMET TYPE	FLIGHT SUIT	HAIR GLOW	WEAKNESS
Kepler	Hover Skates	Bubble Helmet	Orange Flight Suit	Sparkly Pink Glow	Moon Dust Allergy
Ray	Hover Skates	Gold Visor	Orange Flight Suit	Neon Green Glow	Loves Space Popcorn
Rocket	Magnetic Gloves	Neon Mask	Orange Flight Suit	Sparkly Pink Glow	Loves Space Popcorn
Sunny	Laser Lasso	Bubble Helmet	Blue Flight Suit	Neon Green Glow	Loves Space Popcorn
Draco	Gravity Boots	Neon Mask	Blue Flight Suit	Spiky Purple Glow	Moon Dust Allergy
Lyra	Hover Skates	Bubble Helmet	Orange Flight Suit	Neon Green Glow	Loves Space Popcorn
Zelda	Laser Lasso	Antenna Cap	Blue Flight Suit	Spiky Purple Glow	Loves Space Popcorn
Orion	Jetpack Backpack	Star Goggles	Blue Flight Suit	Neon Green Glow	Afraid of Robot Beeps
Mars	Hover Skates	Star Goggles	Orange Flight Suit	Sparkly Pink Glow	Moon Dust Allergy
Ziggy	Magnetic Gloves	Antenna Cap	Orange Flight Suit	Neon Green Glow	Loves Space Popcorn
Leo	Laser Lasso	Antenna Cap	Orange Flight Suit	Spiky Purple Glow	Loves Space Popcorn
Comet	Hover Skates	Bubble Helmet	Blue Flight Suit	Spiky Purple Glow	Moon Dust Allergy
Stella	Jetpack Backpack	Gold Visor	Orange Flight Suit	Neon Green Glow	Afraid of Robot Beeps
Pluto	Laser Lasso	Bubble Helmet	Orange Flight Suit	Neon Green Glow	Loves Space Popcorn
Astro	Jetpack Backpack	Star Goggles	Blue Flight Suit	Neon Green Glow	Loves Space Popcorn
Drifty	Jetpack Backpack	Gold Visor	Blue Flight Suit	Neon Green Glow	Moon Dust Allergy
Zara	Hover Skates	Gold Visor	Blue Flight Suit	Spiky Purple Glow	Loves Space Popcorn
Pip	Hover Skates	Star Goggles	Orange Flight Suit	Neon Green Glow	Afraid of Robot Beeps
Bixby	Jetpack Backpack	Bubble Helmet	Orange Flight Suit	Spiky Purple Glow	Moon Dust Allergy
Venus	Hover Skates	Star Goggles	Orange Flight Suit	Neon Green Glow	Loves Space Popcorn
Luna	Hover Skates	Bubble Helmet	Orange Flight Suit	Sparkly Pink Glow	Loves Space Popcorn

CLUE 1 Rounding

The starship's radar screen is fuzzy. It only shows the rounded number of miles to the bandit's runaway ship. Round this number to the nearest ten to unlock the first clue.

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

<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>
3000	800	7000	300	90	8000	4000	600	3000	4000	70	7000	200	8000	70	3000
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
80	7000	90	400	200	3000	90	400	9000	70	9000	9000	20	7000	200	

Round 3,296 to the nearest thousand	<input type="text"/>	<input type="text" value="T"/>	Round 238 to the nearest hundred	<input type="text"/>	<input type="text" value="S"/>	Round 849 to the nearest hundred	<input type="text"/>	<input type="text" value="H"/>
Round 73 to the nearest ten	<input type="text"/>	<input type="text" value="O"/>	Round 20 to the nearest ten	<input type="text"/>	<input type="text" value="L"/>	Round 7,189 to the nearest thousand	<input type="text"/>	<input type="text" value="E"/>
Round 275 to the nearest hundred	<input type="text"/>	<input type="text" value="B"/>	Round 610 to the nearest hundred	<input type="text"/>	<input type="text" value="I"/>	Round 9,123 to the nearest thousand	<input type="text"/>	<input type="text" value="G"/>
Round 4,133 to the nearest thousand	<input type="text"/>	<input type="text" value="D"/>	Round 90 to the nearest ten	<input type="text"/>	<input type="text" value="A"/>	Round 383 to the nearest hundred	<input type="text"/>	<input type="text" value="R"/>
Round 81 to the nearest ten	<input type="text"/>	<input type="text" value="W"/>	Round 8,051 to the nearest thousand	<input type="text"/>	<input type="text" value="N"/>			

Scratch space:

CLUE 2 Addition

Chief Cosmo counts the empty plant pots left in the garden. By adding the red pots to the blue pots, we can decode the next security screen.

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

<input type="text" value="O"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="O"/>	<input type="text"/>
474	880	402	299	350	853	700	302	880	853	402	870	650	536	853	880	853	474	299
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
700	302	853	267	853	329	853	880											

$220 + 254 =$	<input type="text"/>	<input type="text" value="O"/>	$157 + 193 =$	<input type="text"/>	<input type="text" value="G"/>	$254 + 396 =$	<input type="text"/>	<input type="text" value="S"/>
$522 + 358 =$	<input type="text"/>	<input type="text" value="R"/>	$95 + 204 =$	<input type="text"/>	<input type="text" value="N"/>	$433 + 267 =$	<input type="text"/>	<input type="text" value="T"/>
$252 + 150 =$	<input type="text"/>	<input type="text" value="A"/>	$86 + 181 =$	<input type="text"/>	<input type="text" value="L"/>	$413 + 440 =$	<input type="text"/>	<input type="text" value="E"/>
$399 + 471 =$	<input type="text"/>	<input type="text" value="D"/>	$128 + 174 =$	<input type="text"/>	<input type="text" value="H"/>	$237 + 299 =$	<input type="text"/>	<input type="text" value="W"/>
$104 + 225 =$	<input type="text"/>	<input type="text" value="V"/>						

Scratch space:

CLUE 3

Subtraction

The bandit dropped some heavy cargo pods to speed up their escape. If we subtract the dropped pods from the total pods, we get the key to open the vault.

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

<input type="text" value="W"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
470	613	404	362	776	374	830	274	362	274	515	362	773	374

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
819	613	773	374	613	136	172	154	374	734	607	613	136	438	236

558 - 88 =	<input type="text"/>	W	751 - 144 =	<input type="text"/>	H	1130 - 396 =	<input type="text"/>	T
1166 - 347 =	<input type="text"/>	K	527 - 355 =	<input type="text"/>	S	410 - 174 =	<input type="text"/>	B
657 - 44 =	<input type="text"/>	E	997 - 224 =	<input type="text"/>	R	1169 - 393 =	<input type="text"/>	U
457 - 19 =	<input type="text"/>	A	1177 - 347 =	<input type="text"/>	D	434 - 72 =	<input type="text"/>	O
656 - 282 =	<input type="text"/>	N	796 - 281 =	<input type="text"/>	C	516 - 112 =	<input type="text"/>	F
520 - 384 =	<input type="text"/>	L	353 - 199 =	<input type="text"/>	I	656 - 382 =	<input type="text"/>	P

Scratch space:

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

A group of cute space monkeys found some glow-berries and shared them equally. Find how many berries each monkey got to unlock the final computer screen.

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:

$77 \div 11 = \boxed{}$

$48 \div 8 = \boxed{}$

$22 \div 2 = \boxed{}$

$4 \div 2 = \boxed{}$

$15 \div 5 = \boxed{}$

$70 \div 7 = \boxed{}$

$72 \div 6 = \boxed{}$

$81 \div 9 = \boxed{}$

$20 \div 4 = \boxed{}$

$11 \div 11 = \boxed{}$

$32 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain stomped with gravity boots, then fogged up a bubble helmet.
2. The villain climbed with magnetic gloves, then adjusted a neon mask.
3. The villain zoomed with a jetpack backpack, then polished a gold visor.
4. The villain glided on hover skates, then fogged up a bubble helmet.
5. The villain climbed with magnetic gloves, then polished a gold visor.
6. The villain climbed with magnetic gloves, then wiggled an antenna cap.
7. The villain swung a laser lasso, then fogged up a bubble helmet.
8. The villain climbed with magnetic gloves, then fogged up a bubble helmet.
9. The villain stomped with gravity boots, then polished a gold visor.
10. The villain swung a laser lasso, then adjusted a neon mask.
11. The villain glided on hover skates, then polished a gold visor.
12. The villain climbed with magnetic gloves, then adjusted some star goggles.

Answer Key

The Mystery of the Astro-Dome Bandit

Culprit: Lyra

Hover Skates · Bubble Helmet · Orange Flight Suit · Neon Green Glow · Loves Space Popcorn

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE BANDIT DOES NOT WEAR STAR GOGGLES"

Round 3,296 to the nearest thousand = 3000 (T) · Round 238 to the nearest hundred = 200 (S) · Round 849 to the nearest hundred = 800 (H) · Round 73 to the nearest ten = 70 (O) · Round 20 to the nearest ten = 20 (L) · Round 7,189 to the nearest thousand = 7000 (E) · Round 275 to the nearest hundred = 300 (B) · Round 610 to the nearest hundred = 600 (I) · Round 9,123 to the nearest thousand = 9000 (G) · Round 4,133 to the nearest thousand = 4000 (D) · Round 90 to the nearest ten = 90 (A) · Round 383 to the nearest hundred = 400 (R) · Round 81 to the nearest ten = 80 (W) · Round 8,051 to the nearest thousand = 8000 (N)

Clue 2 (Addition): "ORANGE THREADS WERE ON THE LEVER"

$220 + 254 = 474$ (O) · $157 + 193 = 350$ (G) · $254 + 396 = 650$ (S) · $522 + 358 = 880$ (R) · $95 + 204 = 299$ (N) · $433 + 267 = 700$ (T) · $252 + 150 = 402$ (A) · $86 + 181 = 267$ (L) · $413 + 440 = 853$ (E) · $399 + 471 = 870$ (D) · $128 + 174 = 302$ (H) · $237 + 299 = 536$ (W) · $104 + 225 = 329$ (V)

Clue 3 (Subtraction): "WE FOUND POPCORN KERNELS IN THE LAB"

$558 - 88 = 470$ (W) · $751 - 144 = 607$ (H) · $1130 - 396 = 734$ (T) · $1166 - 347 = 819$ (K) · $527 - 355 = 172$ (S) · $410 - 174 = 236$ (B) · $657 - 44 = 613$ (E) · $997 - 224 = 773$ (R) · $1169 - 393 = 776$ (U) · $457 - 19 = 438$ (A) · $1177 - 347 = 830$ (D) · $434 - 72 = 362$ (O) · $656 - 282 = 374$ (N) · $796 - 281 = 515$ (C) · $516 - 112 = 404$ (F) · $520 - 384 = 136$ (L) · $353 - 199 = 154$ (I) · $656 - 382 = 274$ (P)

Clue 4 (Multiplication facts (1-12)): "A GREEN HAIR WAS ON THE CONTROL PAD"

$8 \times 2 = 16$ (A) · $5 \times 10 = 50$ (E) · $6 \times 11 = 66$ (C) · $7 \times 7 = 49$ (S) · $5 \times 11 = 55$ (P) · $7 \times 2 = 14$ (R) · $3 \times 3 = 9$ (H) · $8 \times 7 = 56$ (D) · $12 \times 7 = 84$ (G) · $5 \times 12 = 60$ (I) · $5 \times 9 = 45$ (N) · $8 \times 10 = 80$ (O) · $2 \times 2 = 4$ (W) · $7 \times 11 = 77$ (T) · $10 \times 10 = 100$ (L)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Lyra

$77 \div 11 = 7$ · $48 \div 8 = 6$ · $22 \div 2 = 11$ · $4 \div 2 = 2$ · $15 \div 5 = 3$ · $70 \div 7 = 10$ · $72 \div 6 = 12$ · $81 \div 9 = 9$ · $20 \div 4 = 5$ · $11 \div 11 = 1$ · $32 \div 4 = 8$