



The Great Beach Bone Heist

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

Detective: _____ Date: _____

The golden trophy bone has vanished from the sandcastle stage! Head Lifeguard Barney needs you to search Sandy Paws Cove and sniff out the pup who took it before the sunset campfire.

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 Treat Thief is _____

Possible suspects

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

NAME	PRIMARY TRICK	BEACH GEAR	BARK STYLE	FUR COAT	BEST DISTRACTION
Sunny	splashes water	fancy leash	yips quickly	golden fur	belly rubs
Duke	shakes sand	sun visor	yips quickly	golden fur	tennis balls
Lola	digging holes	shiny goggles	howls loudly	curly black fur	tennis balls
Barnaby	catching frisbees	fancy leash	howls loudly	golden fur	tennis balls
Otis	shakes sand	fancy leash	yips quickly	golden fur	tennis balls
Peanut	shakes sand	fancy leash	yips quickly	curly black fur	smelly treats
Marley	shakes sand	shiny goggles	yips quickly	curly black fur	tennis balls
Tucker	catching frisbees	shiny goggles	yips quickly	curly black fur	tennis balls
Pippa	shakes sand	red life vest	yips quickly	golden fur	tennis balls
Winston	catching frisbees	squeaky ball	yips quickly	golden fur	tennis balls
Coco	riding surfboards	squeaky ball	howls loudly	golden fur	tennis balls
Sadie	splashes water	sun visor	yips quickly	golden fur	belly rubs
Cooper	shakes sand	fancy leash	yips quickly	golden fur	belly rubs
Bella	shakes sand	red life vest	yips quickly	spotted white fur	tennis balls
Ziggy	riding surfboards	sun visor	howls loudly	spotted white fur	smelly treats
Barkley	shakes sand	sun visor	yips quickly	spotted white fur	smelly treats
Buddy	catching frisbees	squeaky ball	yips quickly	golden fur	smelly treats
Sandy	shakes sand	red life vest	howls loudly	golden fur	smelly treats
Buster	riding surfboards	shiny goggles	yips quickly	golden fur	belly rubs
Wave	catching frisbees	sun visor	yips quickly	golden fur	tennis balls
Daisy	digging holes	sun visor	yips quickly	curly black fur	tennis balls

CLUE 1 Rounding

A radar camera on the boardwalk took a blurry photo, but it only shows speeds rounded to the nearest ten.
Round these numbers to find the first clue!

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

T 60	400	700	T 60	400	600	700	5000	40	900	700	30	3000	900	T 60	400	20	80	700
20	30	9000	200	700	20	2000	500	8000	20	4000	4000							

Round 61 to the nearest ten → **T**

Round 2,597 to the nearest thousand → **N**

Round 8,584 to the nearest thousand → **Q**

Round 216 to the nearest hundred → **U**

Round 17 to the nearest ten → **A**

Round 731 to the nearest hundred → **E**

Round 589 to the nearest hundred → **I**

Round 403 to the nearest hundred → **H**

Round 885 to the nearest hundred → **O**

Round 3,691 to the nearest thousand → **L**

Round 544 to the nearest hundred → **Y**

Round 40 to the nearest ten → **D**

Round 4,909 to the nearest thousand → **F**

Round 78 to the nearest ten → **V**

Round 33 to the nearest ten → **S**

Round 7,978 to the nearest thousand → **B**

Round 2,132 to the nearest thousand → **K**

Scratch space:

CLUE 2 Addition

We need to count all the plastic beach whistles scattered on the beach. Add up the piles to see what gear the culprit was wearing.

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

T 243	769	256	626	950	626	883	256	328	243	954	544	883	626	655	256	589	954
845	950	544	328	619	237	954											

$137 + 106 = \square \rightarrow \boxed{\text{T}}$

$579 + 304 = \square \rightarrow \boxed{\text{P}}$

$453 + 202 = \square \rightarrow \boxed{\text{V}}$

$359 + 591 = \square \rightarrow \boxed{\text{U}}$

$244 + 345 = \square \rightarrow \boxed{\text{R}}$

$329 + 440 = \square \rightarrow \boxed{\text{H}}$

$498 + 456 = \square \rightarrow \boxed{\text{Y}}$

$117 + 120 = \square \rightarrow \boxed{\text{L}}$

$301 + 325 = \square \rightarrow \boxed{\text{S}}$

$174 + 370 = \square \rightarrow \boxed{\text{I}}$

$105 + 151 = \square \rightarrow \boxed{\text{E}}$

$212 + 407 = \square \rightarrow \boxed{\text{K}}$

$511 + 334 = \square \rightarrow \boxed{\text{Q}}$

$119 + 209 = \square \rightarrow \boxed{\text{C}}$

Scratch space:

CLUE 3

Subtraction

Some pup took a big bite out of the fish biscuits at the snack shack. Subtract the missing snacks to reveal the thief's weakness.

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

A								A										
877	767	845	149	149	683	567	203	877	746	746	809	683	746	746	567	767	245	827

767	837	845	181

$1086 - 209 = \boxed{} \rightarrow \boxed{\text{A}}$

$846 - 19 = \boxed{} \rightarrow \boxed{\text{P}}$

$1074 - 328 = \boxed{} \rightarrow \boxed{\text{L}}$

$1058 - 249 = \boxed{} \rightarrow \boxed{\text{W}}$

$192 - 43 = \boxed{} \rightarrow \boxed{\text{N}}$

$659 - 92 = \boxed{} \rightarrow \boxed{\text{S}}$

$1101 - 334 = \boxed{} \rightarrow \boxed{\text{T}}$

$586 - 383 = \boxed{} \rightarrow \boxed{\text{B}}$

$493 - 248 = \boxed{} \rightarrow \boxed{\text{O}}$

$312 - 131 = \boxed{} \rightarrow \boxed{\text{M}}$

$994 - 149 = \boxed{} \rightarrow \boxed{\text{E}}$

$800 - 117 = \boxed{} \rightarrow \boxed{\text{I}}$

$838 - 1 = \boxed{} \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 4**Multiplication facts (1-12)**

The culprit ran past rows of beach umbrellas and knocked some over. Multiply the rows to find a clue about their fur color.

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

I 40	120	99	45	72	80	50	99	90	80	33	72	120	45	84	99	72
21	96	33	121	108	21											

$8 \times 5 = \square \rightarrow \boxed{\text{I}}$

$5 \times 10 = \square \rightarrow \boxed{\text{G}}$

$8 \times 12 = \square \rightarrow \boxed{\text{H}}$

$12 \times 9 = \square \rightarrow \boxed{\text{A}}$

$9 \times 10 = \square \rightarrow \boxed{\text{L}}$

$3 \times 7 = \square \rightarrow \boxed{\text{T}}$

$8 \times 9 = \square \rightarrow \boxed{\text{N}}$

$10 \times 12 = \square \rightarrow \boxed{\text{F}}$

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

$11 \times 11 = \square \rightarrow \boxed{\text{M}}$

$7 \times 12 = \square \rightarrow \boxed{\text{R}}$

$11 \times 3 = \square \rightarrow \boxed{\text{E}}$

$10 \times 8 = \square \rightarrow \boxed{\text{D}}$

$5 \times 9 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

CLUE 5**Missing addends - the last clue**

We need twenty life vests for the swim team, but some are missing. Find the missing number to discover how the pup barks.

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:

$8 + \underline{\quad} = 20$

$4 + \underline{\quad} = 5$

$5 + \underline{\quad} = 8$

$3 + \underline{\quad} = 5$

$6 + \underline{\quad} = 12$

$9 + \underline{\quad} = 13$

$5 + \underline{\quad} = 13$

$9 + \underline{\quad} = 19$

$10 + \underline{\quad} = 21$

$6 + \underline{\quad} = 13$

$5 + \underline{\quad} = 10$

Step 2 - cross out the sentence with each answer:

1. The villain shakes wet sand everywhere, then tips their sun visor.
2. The villain catches a flying frisbee, then tangles up their fancy leash.
3. The villain shakes wet sand everywhere, then tangles up their fancy leash.
4. The villain digs a deep hole in the sand, then tangles up their fancy leash.
5. The villain catches a flying frisbee, then adjusts their shiny goggles.
6. The villain splashes water at the crowd, then adjusts their shiny goggles.
7. The villain splashes water at the crowd, then squeaks a rubber ball.
8. The villain rides a giant wave on a surfboard, then tangles up their fancy leash.
9. The villain catches a flying frisbee, then tips their sun visor.
10. The villain rides a giant wave on a surfboard, then squeaks a rubber ball.
11. The villain rides a giant wave on a surfboard, then tips their sun visor.
12. The villain shakes wet sand everywhere, then buckles their red life vest.

Answer Key

The Great Beach Bone Heist

Culprit: Wave

catching frisbees · sun visor · yips quickly · golden fur · tennis balls

Trail: Start 21 → Clue 1 18 → Clue 2 14 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE THIEF DOES NOT HAVE A SQUEAKY BALL"

Round 61 to the nearest ten = 60 (T) · Round 2,597 to the nearest thousand = 3000 (N) · Round 8,584 to the nearest thousand = 9000 (Q) · Round 216 to the nearest hundred = 200 (U) · Round 17 to the nearest ten = 20 (A) · Round 731 to the nearest hundred = 700 (E) · Round 589 to the nearest hundred = 600 (I) · Round 403 to the nearest hundred = 400 (H) · Round 885 to the nearest hundred = 900 (O) · Round 3,691 to the nearest thousand = 4000 (L) · Round 544 to the nearest hundred = 500 (Y) · Round 40 to the nearest ten = 40 (D) · Round 4,909 to the nearest thousand = 5000 (F) · Round 78 to the nearest ten = 80 (V) · Round 33 to the nearest ten = 30 (S) · Round 7,978 to the nearest thousand = 8000 (B) · Round 2,132 to the nearest thousand = 2000 (K)

Clue 2 (Addition): "THE SUSPECT YIPS VERY QUICKLY"

$137 + 106 = 243$ (T) · $579 + 304 = 883$ (P) · $453 + 202 = 655$ (V) · $359 + 591 = 950$ (U) · $244 + 345 = 589$ (R) · $329 + 440 = 769$ (H) · $498 + 456 = 954$ (Y) · $117 + 120 = 237$ (L) · $301 + 325 = 626$ (S) · $174 + 370 = 544$ (I) · $105 + 151 = 256$ (E) · $212 + 407 = 619$ (K) · $511 + 334 = 845$ (Q) · $119 + 209 = 328$ (C)

Clue 3 (Subtraction): "A TENNIS BALL WILL STOP THEM"

$1086 - 209 = 877$ (A) · $846 - 19 = 827$ (P) · $1074 - 328 = 746$ (L) · $1058 - 249 = 809$ (W) · $192 - 43 = 149$ (N) · $659 - 92 = 567$ (S) · $1101 - 334 = 767$ (T) · $586 - 383 = 203$ (B) · $493 - 248 = 245$ (O) · $312 - 131 = 181$ (M) · $994 - 149 = 845$ (E) · $800 - 117 = 683$ (I) · $838 - 1 = 837$ (H)

Clue 4 (Multiplication facts (1-12)): "I FOUND GOLDEN FUR ON THE MAT"

$8 \times 5 = 40$ (I) · $5 \times 10 = 50$ (G) · $8 \times 12 = 96$ (H) · $12 \times 9 = 108$ (A) · $9 \times 10 = 90$ (L) · $3 \times 7 = 21$ (T) · $8 \times 9 = 72$ (N) · $10 \times 12 = 120$ (F) · $11 \times 9 = 99$ (O) · $11 \times 11 = 121$ (M) · $7 \times 12 = 84$ (R) · $11 \times 3 = 33$ (E) · $10 \times 8 = 80$ (D) · $5 \times 9 = 45$ (U)

Clue 5 (Missing addends): surviving statement is box 9 → Wave

$8 + \underline{\quad} = 20 = 12$ · $4 + \underline{\quad} = 5 = 1$ · $5 + \underline{\quad} = 8 = 3$ · $3 + \underline{\quad} = 5 = 2$ · $6 + \underline{\quad} = 12 = 6$ · $9 + \underline{\quad} = 13 = 4$ · $5 + \underline{\quad} = 13 = 8$ · $9 + \underline{\quad} = 19 = 10$ · $10 + \underline{\quad} = 21 = 11$ · $6 + \underline{\quad} = 13 = 7$ · $5 + \underline{\quad} = 10 = 5$