



The Great Squeaky Bone Heist

Grade 4 math · Multiplication, Rounding, Fractions of a number, Addition, Division · Reading level grades 3-4

Detective: _____ Date: _____

Someone swiped the Golden Squeaky Bone from the Bark City Toy Museum! The suspect left muddy paw prints and chew marks all over the crime scene. We need to find which pup did it!

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 Sneaky Pup is _____

Possible suspects

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

NAME	SPECIAL TRICK	SNEAKY GEAR	EAR FOLD	FUR TYPE	FAVORITE DISTRACTION
Copper	Super High Jump	Flying Disc Shield	Left Ear Folded	Short Shiny Fur	Squeaky Tennis Ball
Marley	Loud Sonic Bark	Squeaky Booties	Right Ear Folded	Curly Poodle Fur	Bacon Scented Bubble
Wishbone	Lightning Fast Dig	Snack Pack	Right Ear Folded	Curly Poodle Fur	Bacon Scented Bubble
Comet	Lightning Fast Dig	Glow Collar	Left Ear Folded	Shaggy Sheepdog Fur	Bacon Scented Bubble
Toto	Loud Sonic Bark	Grappling Leash	Left Ear Folded	Shaggy Sheepdog Fur	Peanut Butter Jar
Perdita	Loud Sonic Bark	Glow Collar	Right Ear Folded	Curly Poodle Fur	Bacon Scented Bubble
Pongo	Lightning Fast Dig	Grappling Leash	Left Ear Folded	Shaggy Sheepdog Fur	Peanut Butter Jar
Bolt	Loud Sonic Bark	Flying Disc Shield	Right Ear Folded	Curly Poodle Fur	Peanut Butter Jar
Hachiko	Lightning Fast Dig	Snack Pack	Right Ear Folded	Short Shiny Fur	Peanut Butter Jar
Bingo	Sneaky Carpet Camouflage	Grappling Leash	Left Ear Folded	Curly Poodle Fur	Peanut Butter Jar
Lassie	Loud Sonic Bark	Squeaky Booties	Left Ear Folded	Curly Poodle Fur	Bacon Scented Bubble
Nana	Sneaky Carpet Camouflage	Grappling Leash	Right Ear Folded	Curly Poodle Fur	Bacon Scented Bubble
Pluto	Sneaky Carpet Camouflage	Glow Collar	Right Ear Folded	Shaggy Sheepdog Fur	Peanut Butter Jar
Snoopy	Loud Sonic Bark	Glow Collar	Right Ear Folded	Short Shiny Fur	Peanut Butter Jar
Balto	Super High Jump	Squeaky Booties	Left Ear Folded	Shaggy Sheepdog Fur	Peanut Butter Jar
Biscuit	Lightning Fast Dig	Grappling Leash	Right Ear Folded	Short Shiny Fur	Bacon Scented Bubble
Buddy	Loud Sonic Bark	Glow Collar	Right Ear Folded	Curly Poodle Fur	Squeaky Tennis Ball
Slinky	Sneaky Carpet Camouflage	Grappling Leash	Right Ear Folded	Curly Poodle Fur	Squeaky Tennis Ball
Barkley	Sneaky Carpet Camouflage	Squeaky Booties	Right Ear Folded	Short Shiny Fur	Bacon Scented Bubble
Scooby	Hyper Speed Fetch	Grappling Leash	Right Ear Folded	Curly Poodle Fur	Bacon Scented Bubble
Odie	Sneaky Carpet Camouflage	Grappling Leash	Right Ear Folded	Short Shiny Fur	Peanut Butter Jar

Multiplication facts (1-12)

We found crates of dog treats organized in equal rows. Let us count them to see which way the thief went.

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

A number line from 0 to 1000. The line is divided into segments by vertical tick marks. Below the line, numbers are written in each segment. The numbers are: 2, 100, 55, 63, 121, 55, 18, 27, 24, 48, 66, 48, 25, 20, 55, 63, 121, 20, 2. The number 2 is highlighted in an orange box and labeled with a 'T' above it, indicating the target number.

$2 \times 1 = \boxed{} \rightarrow \boxed{\text{T}}$

$$3 \times 4 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$4 \times 6 = \boxed{} \rightarrow \boxed{\text{Y}}$

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

$$10 \times 2 = \boxed{} \rightarrow \boxed{0}$$

$9 \times 3 = \boxed{} \rightarrow \boxed{\text{K}}$

$$4 \times 12 = \boxed{} \rightarrow \boxed{\text{P}}$$

$11 \times 10 = \boxed{} \rightarrow \boxed{\text{C}}$

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

$$5 \times 11 = \boxed{} \rightarrow \boxed{\text{E}}$$

$5 \times 5 = \square \rightarrow \boxed{\text{D}}$

$9 \times 7 = \square \rightarrow \mathbf{S}$

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

$2 \times 9 = \square \rightarrow \boxed{\mathbf{A}}$

Scratch space:

CLUE 2

Rounding

The museum laser scale showed a rounded weight for the thief. Let us estimate the exact weight.

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

T								T								
20	7000	170	70	2900	3700	1100	20	4300	2300	2900	2300	7000	5000	1300	5000	

										T				
50	370	1100	290	170	290	30	3700	70	7000	20	170	5000	30	

Round 20 to the nearest ten → **T**

Round 5,490 to the nearest thousand → **A**

Round 69 to the nearest ten → **G**

Round 1,293 to the nearest hundred → **S**

Round 169 to the nearest ten → **E**

Round 370 to the nearest ten → **O**

Round 1,118 to the nearest hundred → **L**

Round 4,330 to the nearest hundred → **Y**

Round 54 to the nearest ten → **F**

Round 27 to the nearest ten → **R**

Round 289 to the nearest ten → **D**

Round 7,010 to the nearest thousand → **H**

Round 2,322 to the nearest hundred → **P**

Round 3,667 to the nearest hundred → **I**

Round 2,883 to the nearest hundred → **U**

Scratch space:

CLUE 3
Fractions of a number

The thief knocked over a pile of chew toys and only took some of them. Let us find the fraction they stole.

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

B					B		B	B										
22	23	15	5	29	22	7	22	22	16	19	11	17	5	17	23	16	16	14
28	27	11	17	9	23	15	17	19	28	17	39	19	12					

$4/6 \text{ of } 33 = \square \rightarrow \text{B}$

$1/6 \text{ of } 102 = \square \rightarrow \text{T}$

$2/3 \text{ of } 18 = \square \rightarrow \text{M}$

$1/5 \text{ of } 95 = \square \rightarrow \text{E}$

$1/8 \text{ of } 40 = \square \rightarrow \text{O}$

$7/10 \text{ of } 20 = \square \rightarrow \text{Y}$

$4/8 \text{ of } 22 = \square \rightarrow \text{S}$

$4/6 \text{ of } 24 = \square \rightarrow \text{L}$

$1/10 \text{ of } 70 = \square \rightarrow \text{U}$

$3/8 \text{ of } 104 = \square \rightarrow \text{H}$

$5/10 \text{ of } 58 = \square \rightarrow \text{N}$

$1/10 \text{ of } 90 = \square \rightarrow \text{R}$

$6/8 \text{ of } 20 = \square \rightarrow \text{C}$

$2/10 \text{ of } 135 = \square \rightarrow \text{I}$

$2/4 \text{ of } 56 = \square \rightarrow \text{D}$

$2/6 \text{ of } 69 = \square \rightarrow \text{A}$

Scratch space:

CLUE 4 Addition

Muddy paw prints lead down the hall. We need to add up all the prints to track the thief.

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

W																	
4502	4479	8302	6421	7365	3618	2848	2228	7365	5243	9360	3105	7141	6421	6421	2848	9360	4479

8302	7365	5243	8019	6599	6599	5148	4479	5765	2228	4479	3618	4479

$$2126 + 2376 = \boxed{} \rightarrow \boxed{W}$$

$$1443 + 3036 = \boxed{} \rightarrow \boxed{E}$$

$$2787 + 2978 = \boxed{} \rightarrow \boxed{S}$$

$$5002 + 4358 = \boxed{} \rightarrow \boxed{L}$$

$$3386 + 1762 = \boxed{} \rightarrow \boxed{H}$$

$$3770 + 4532 = \boxed{} \rightarrow \boxed{F}$$

$$3083 + 4058 = \boxed{} \rightarrow \boxed{P}$$

$$1016 + 2089 = \boxed{} \rightarrow \boxed{Y}$$

$$993 + 1235 = \boxed{} \rightarrow \boxed{C}$$

$$2669 + 3752 = \boxed{} \rightarrow \boxed{O}$$

$$3988 + 3377 = \boxed{} \rightarrow \boxed{U}$$

$$1048 + 1800 = \boxed{} \rightarrow \boxed{D}$$

$$3552 + 4467 = \boxed{} \rightarrow \boxed{A}$$

$$3533 + 3066 = \boxed{} \rightarrow \boxed{T}$$

$$1805 + 3438 = \boxed{} \rightarrow \boxed{R}$$

$$1560 + 2058 = \boxed{} \rightarrow \boxed{N}$$

Scratch space:

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

We found a pile of stolen dog biscuits that must be split equally among our detective pups.

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:

$99 \div 9 = \boxed{}$

$35 \div 5 = \boxed{}$

$25 \div 5 = \boxed{}$

$33 \div 11 = \boxed{}$

$24 \div 3 = \boxed{}$

$24 \div 12 = \boxed{}$

$90 \div 9 = \boxed{}$

$4 \div 1 = \boxed{}$

$81 \div 9 = \boxed{}$

$66 \div 11 = \boxed{}$

$7 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain shattered the glass display with a sonic bark, then zipped away using a grappling leash.
2. The villain jumped over the high security fence, then zipped away using a grappling leash.
3. The villain jumped over the high security fence, then blocked the laser grid with a flying disc shield.
4. The villain blended into the lobby rug, then blocked the laser grid with a flying disc shield.
5. The villain shattered the glass display with a sonic bark, then sneaked past the guards in squeaky booties.
6. The villain tunneled under the museum floor, then zipped away using a grappling leash.
7. The villain blended into the lobby rug, then zipped away using a grappling leash.
8. The villain blended into the lobby rug, then used a glowing collar to light the dark hallway.
9. The villain dashed past the cameras to fetch the prize, then escaped while munching treats from a snack pack.
10. The villain dashed past the cameras to fetch the prize, then blocked the laser grid with a flying disc shield.
11. The villain shattered the glass display with a sonic bark, then used a glowing collar to light the dark hallway.
12. The villain dashed past the cameras to fetch the prize, then zipped away using a grappling leash.

Answer Key

The Great Squeaky Bone Heist

Culprit: Scooby

Hyper Speed Fetch · Grappling Leash · Right Ear Folded · Curly Poodle Fur · Bacon Scented Bubble

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SNEAKY PUP DOES NOT HAVE A SNACK PACK"

$2 \times 1 = 2$ (T) · $3 \times 4 = 12$ (V) · $4 \times 6 = 24$ (Y) · $11 \times 11 = 121$ (N) · $10 \times 2 = 20$ (O) · $9 \times 3 = 27$ (K) · $4 \times 12 = 48$ (P) · $11 \times 10 = 110$ (C) · $11 \times 6 = 66$ (U) · $5 \times 11 = 55$ (E) · $5 \times 5 = 25$ (D) · $9 \times 7 = 63$ (S) · $10 \times 10 = 100$ (H) · $2 \times 9 = 18$ (A)

Clue 2 (Rounding): "THE GUILTY PUP HAS A FOLDED RIGHT EAR"

Round 20 to the nearest ten = 20 (T) · Round 5,490 to the nearest thousand = 5000 (A) · Round 69 to the nearest ten = 70 (G) · Round 1,293 to the nearest hundred = 1300 (S) · Round 169 to the nearest ten = 170 (E) · Round 370 to the nearest ten = 370 (O) · Round 1,118 to the nearest hundred = 1100 (L) · Round 4,330 to the nearest hundred = 4300 (Y) · Round 54 to the nearest ten = 50 (F) · Round 27 to the nearest ten = 30 (R) · Round 289 to the nearest ten = 290 (D) · Round 7,010 to the nearest thousand = 7000 (H) · Round 2,322 to the nearest hundred = 2300 (P) · Round 3,667 to the nearest hundred = 3700 (I) · Round 2,883 to the nearest hundred = 2900 (U)

Clue 3 (Fractions of a number): "BACON BUBBLES TOTALLY DISTRACTED THEM"

$4/6$ of 33 = 22 (B) · $1/6$ of 102 = 17 (T) · $2/3$ of 18 = 12 (M) · $1/5$ of 95 = 19 (E) · $1/8$ of 40 = 5 (O) · $7/10$ of 20 = 14 (Y) · $4/8$ of 22 = 11 (S) · $4/6$ of 24 = 16 (L) · $1/10$ of 70 = 7 (U) · $3/8$ of 104 = 39 (H) · $5/10$ of 58 = 29 (N) · $1/10$ of 90 = 9 (R) · $6/8$ of 20 = 15 (C) · $2/10$ of 135 = 27 (I) · $2/4$ of 56 = 28 (D) · $2/6$ of 69 = 23 (A)

Clue 4 (Addition): "WE FOUND CURLY POODLE FUR AT THE SCENE"

$2126 + 2376 = 4502$ (W) · $1443 + 3036 = 4479$ (E) · $2787 + 2978 = 5765$ (S) · $5002 + 4358 = 9360$ (L) · $3386 + 1762 = 5148$ (H) · $3770 + 4532 = 8302$ (F) · $3083 + 4058 = 7141$ (P) · $1016 + 2089 = 3105$ (Y) · $993 + 1235 = 2228$ (C) · $2669 + 3752 = 6421$ (O) · $3988 + 3377 = 7365$ (U) · $1048 + 1800 = 2848$ (D) · $3552 + 4467 = 8019$ (A) · $3533 + 3066 = 6599$ (T) · $1805 + 3438 = 5243$ (R) · $1560 + 2058 = 3618$ (N)

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

$99 \div 9 = 11$ · $35 \div 5 = 7$ · $25 \div 5 = 5$ · $33 \div 11 = 3$ · $24 \div 3 = 8$ · $24 \div 12 = 2$ · $90 \div 9 = 10$ · $4 \div 1 = 4$ · $81 \div 9 = 9$ · $66 \div 11 = 6$ · $7 \div 7 = 1$