



The Mystery of the Fluffy Jiggle Dog

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

Detective: _____ Date: _____

Someone snagged Jiggle Dog, the fluffiest pencil box in Room 4B! Solve the math clues to catch the thief and save Jiggle Dog.

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 Supply Bandit is _____

Possible suspects

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

NAME	TRICK	TOOL	GLOVE HAND	FUR COLOR	FEAR
Scrappy Nora	Fluff Blast	Sticker Shield	Right Glove	Brown Fur	Flea Combs
Spotty Sean	Fluff Blast	Ruler Strike	Right Glove	Golden Fur	Squeaky Toys
Leash Leo	Furry Dash	Gel Pen Beam	Left Glove	Brown Fur	Flea Combs
Shedding Seth	Bark Shield	Eraser Cloud	Right Glove	Golden Fur	Squeaky Toys
Bouncy Bruno	Bark Shield	Eraser Cloud	Right Glove	Brown Fur	Squeaky Toys
Rover Rachel	Bark Shield	Gel Pen Beam	Right Glove	Brown Fur	Squeaky Toys
Yapping Mia	Fluff Blast	Eraser Cloud	Right Glove	Golden Fur	Squeaky Toys
Fluffy Frank	Squeaky Tail	Crayon Cannon	Right Glove	Spotted Fur	Pencil Sharpeners
Wiggle Will	Bark Shield	Gel Pen Beam	Right Glove	Golden Fur	Flea Combs
Collar Caleb	Squeaky Tail	Sticker Shield	Right Glove	Golden Fur	Squeaky Toys
Paws Sam	Bark Shield	Ruler Strike	Right Glove	Golden Fur	Flea Combs
Fido Felix	Sticky Paw	Crayon Cannon	Left Glove	Brown Fur	Flea Combs
Tailor Toby	Furry Dash	Sticker Shield	Right Glove	Golden Fur	Squeaky Toys
Padding Piper	Fluff Blast	Ruler Strike	Right Glove	Brown Fur	Pencil Sharpeners
Cuddly Clara	Bark Shield	Crayon Cannon	Left Glove	Spotted Fur	Pencil Sharpeners
Puppy Parker	Fluff Blast	Sticker Shield	Left Glove	Golden Fur	Squeaky Toys
Furry Fiona	Squeaky Tail	Crayon Cannon	Left Glove	Golden Fur	Pencil Sharpeners
Fetch Freya	Bark Shield	Eraser Cloud	Left Glove	Brown Fur	Flea Combs
Barking Ben	Bark Shield	Crayon Cannon	Right Glove	Golden Fur	Flea Combs
Mutt Max	Squeaky Tail	Gel Pen Beam	Left Glove	Brown Fur	Squeaky Toys
Howling Holly	Fluff Blast	Sticker Shield	Left Glove	Golden Fur	Flea Combs

Rounding

The supply room scanner only shows rounded numbers on its screen.

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

[illegible]

Round 133 to the nearest ten $\rightarrow$ **T**

Round 9,492 to the nearest thousand $\rightarrow$

Round 112 to the nearest ten $\rightarrow$ **S**

Round 21 to the nearest ten → **E**

Round 2,255 to the nearest hundred → **H**

Round 293 to the nearest ten $\rightarrow$ **0**

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

Round 2,109 to the nearest thousand $\rightarrow$ **L**

Round 371 to the nearest ten $\rightarrow$ **R**

Round 52 to the nearest ten → **K**

Round 2,605 to the nearest thousand $\rightarrow$ **N**

Round 230 to the nearest ten $\rightarrow$ **A**

Round 4,306 to the nearest hundred $\rightarrow$ **U**

Round 340 to the nearest hundred $\rightarrow$ **D**

Scratch space:

CLUE 2

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

8053 7682 8696 9075 6219 3459 3459 3459 9051 8053 4198 7682 3706 5449 8696 3706 8994 8045 7792 6219

8045 9075 3459 4916 3459 6132 6219 2787 8696

$$2961 + 5092 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$5302 + 3692 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$5187 + 2858 = \boxed{} \rightarrow \boxed{0}$$

$$1727 + 3722 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2220 + 3912 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$3777 + 2442 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$1460 + 1327 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$1253 + 2206 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$4973 + 2819 = \boxed{} \rightarrow \boxed{\text{V}}$$

$$1740 + 2458 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$5002 + 2680 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$2974 + 6077 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$4645 + 4051 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$6269 + 2806 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$2091 + 1615 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$1546 + 3370 = \boxed{} \rightarrow \boxed{\text{U}}$$

Scratch space:

CLUE 3

Subtraction

You subtract the missing pencils from the total inventory count.

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

V																	
7788	6027	4934	4934	3106	6027	1851	5688	4934	2967	2967	1432	5688	6422	5815	6620		
1432	1014	7243	2967	3106	2399	2367	1381	5815	2367	1432							

$11085 - 3297 = \square \rightarrow \text{V}$

$3896 - 929 = \square \rightarrow \text{E}$

$3564 - 2132 = \square \rightarrow \text{S}$

$3141 - 35 = \square \rightarrow \text{A}$

$7416 - 2482 = \square \rightarrow \text{L}$

$2012 - 161 = \square \rightarrow \text{N}$

$9791 - 3976 = \square \rightarrow \text{O}$

$9965 - 3938 = \square \rightarrow \text{I}$

$6808 - 188 = \square \rightarrow \text{M}$

$2955 - 1941 = \square \rightarrow \text{Q}$

$8259 - 1837 = \square \rightarrow \text{R}$

$2388 - 1007 = \square \rightarrow \text{T}$

$8747 - 1504 = \square \rightarrow \text{U}$

$9490 - 3802 = \square \rightarrow \text{F}$

$4818 - 2451 = \square \rightarrow \text{Y}$

$3851 - 1452 = \square \rightarrow \text{K}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

You multiply the rows of cubbies to find where the culprit hid.

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

G																			
27	60	100	6	88	35	72	36	99	70	1	99	7	35	6	70	100	88	72	1

7	1	70	10	88	35

$3 \times 9 = \square \rightarrow \text{G}$

$1 \times 1 = \square \rightarrow \text{T}$

$10 \times 7 = \square \rightarrow \text{S}$

$8 \times 11 = \square \rightarrow \text{E}$

$12 \times 6 = \square \rightarrow \text{F}$

$5 \times 7 = \square \rightarrow \text{N}$

$2 \times 3 = \square \rightarrow \text{D}$

$12 \times 5 = \square \rightarrow \text{O}$

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

$7 \times 1 = \square \rightarrow \text{A}$

$9 \times 11 = \square \rightarrow \text{R}$

$3 \times 12 = \square \rightarrow \text{U}$

$1 \times 10 = \square \rightarrow \text{C}$

Scratch space:

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

You divide the chew toys into equal piles to track footprints.

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:

$56 \div 7 = \boxed{}$

$99 \div 11 = \boxed{}$

$48 \div 8 = \boxed{}$

$63 \div 9 = \boxed{}$

$5 \div 1 = \boxed{}$

$8 \div 8 = \boxed{}$

$40 \div 4 = \boxed{}$

$32 \div 8 = \boxed{}$

$121 \div 11 = \boxed{}$

$132 \div 11 = \boxed{}$

$14 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain used sticky paw to grab the box, then blasted a gel pen beam.
2. The villain used bark shield to block the desk guard, then fired a crayon cannon.
3. The villain used bark shield to block the desk guard, then dropped an eraser cloud.
4. The villain used squeaky tail to create confusion, then swung with ruler strike.
5. The villain used bark shield to block the desk guard, then swung with ruler strike.
6. The villain used fluff blast to create a dust cloud, then dropped an eraser cloud.
7. The villain used fluff blast to create a dust cloud, then defended with sticker shield.
8. The villain used squeaky tail to create confusion, then defended with sticker shield.
9. The villain used furry dash to zoom past the cubbies, then defended with sticker shield.
10. The villain used bark shield to block the desk guard, then blasted a gel pen beam.
11. The villain used furry dash to zoom past the cubbies, then swung with ruler strike.
12. The villain used sticky paw to grab the box, then fired a crayon cannon.

Answer Key

The Mystery of the Fluffy Jiggle Dog

Culprit: Shedding Seth

Bark Shield · Eraser Cloud · Right Glove · Golden Fur · Squeaky Toys

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT USE RULER STRIKE"

Round 133 to the nearest ten = 130 (T) · Round 9,492 to the nearest thousand = 9000 (I) · Round 112 to the nearest ten = 110 (S) · Round 21 to the nearest ten = 20 (E) · Round 2,255 to the nearest hundred = 2300 (H) · Round 293 to the nearest ten = 290 (O) · Round 5,490 to the nearest thousand = 5000 (V) · Round 2,109 to the nearest thousand = 2000 (L) · Round 371 to the nearest ten = 370 (R) · Round 52 to the nearest ten = 50 (K) · Round 2,605 to the nearest thousand = 3000 (N) · Round 230 to the nearest ten = 230 (A) · Round 4,306 to the nearest hundred = 4300 (U) · Round 340 to the nearest hundred = 300 (D)

Clue 2 (Addition): "WITNESS SAW RIGHT GLOVE ON SUSPECT"

$2961 + 5092 = 8053$ (W) · $5302 + 3692 = 8994$ (L) · $5187 + 2858 = 8045$ (O) · $1727 + 3722 = 5449$ (H) · $2220 + 3912 = 6132$ (P) · $3777 + 2442 = 6219$ (E) · $1460 + 1327 = 2787$ (C) · $1253 + 2206 = 3459$ (S) · $4973 + 2819 = 7792$ (V) · $1740 + 2458 = 4198$ (R) · $5002 + 2680 = 7682$ (I) · $2974 + 6077 = 9051$ (A) · $4645 + 4051 = 8696$ (T) · $6269 + 2806 = 9075$ (N) · $2091 + 1615 = 3706$ (G) · $1546 + 3370 = 4916$ (U)

Clue 3 (Subtraction): "VILLAIN FLEES FROM SQUEAKY TOYS"

$11085 - 3297 = 7788$ (V) · $3896 - 929 = 2967$ (E) · $3564 - 2132 = 1432$ (S) · $3141 - 35 = 3106$ (A) · $7416 - 2482 = 4934$ (L) · $2012 - 161 = 1851$ (N) · $9791 - 3976 = 5815$ (O) · $9965 - 3938 = 6027$ (I) · $6808 - 188 = 6620$ (M) · $2955 - 1941 = 1014$ (Q) · $8259 - 1837 = 6422$ (R) · $2388 - 1007 = 1381$ (T) · $8747 - 1504 = 7243$ (U) · $9490 - 3802 = 5688$ (F) · $4818 - 2451 = 2367$ (Y) · $3851 - 1452 = 2399$ (K)

Clue 4 (Multiplication facts (1-12)): "GOLDEN FUR STRANDS LEFT AT SCENE"

$3 \times 9 = 27$ (G) · $1 \times 1 = 1$ (T) · $10 \times 7 = 70$ (S) · $8 \times 11 = 88$ (E) · $12 \times 6 = 72$ (F) · $5 \times 7 = 35$ (N) · $2 \times 3 = 6$ (D) · $12 \times 5 = 60$ (O) · $10 \times 10 = 100$ (L) · $7 \times 1 = 7$ (A) · $9 \times 11 = 99$ (R) · $3 \times 12 = 36$ (U) · $1 \times 10 = 10$ (C)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Shedding Seth

$56 \div 7 = 8$ · $99 \div 11 = 9$ · $48 \div 8 = 6$ · $63 \div 9 = 7$ · $5 \div 1 = 5$ · $8 \div 8 = 1$ · $40 \div 4 = 10$ · $32 \div 8 = 4$ · $121 \div 11 = 11$ · $132 \div 11 = 12$ · $14 \div 7 = 2$