



The Great Craft Studio Heist

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

Detective: _____ Date: _____

Someone has stolen the Golden Scissors from the main display cabinet! The Craft Burglar left a trail of colorful craft supplies behind. Use your math skills to find the thief.

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 Craft Burglar is _____

Possible suspects

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

NAME	CRAFT STYLE	SIGNATURE TOOL	SLEEVE HABIT	HAIR YARN COLOR	CRAFT WEAKNESS
Bob	Origami	Paint Brush	Sleeves Rolled Up	Yarn Strands Blue	Allergy to Wool
Michelangelo	Weaving	Paint Brush	Sleeves Rolled Down	Yarn Strands Yellow	Fear of Scissors
Vincent	Weaving	Golden Needle	Sleeves Rolled Down	Yarn Strands Pink	Allergy to Wool
Salvador	Knitting	Clay Wheel	Sleeves Rolled Down	Yarn Strands Blue	Allergy to Wool
Auguste	Pottery	Paper Folder	Sleeves Rolled Down	Yarn Strands Pink	Fear of Scissors
Gaby	Pottery	Golden Needle	Sleeves Rolled Down	Yarn Strands Blue	Dislikes Sticky Glue
Yarnie	Weaving	Loom Shuttle	Sleeves Rolled Down	Yarn Strands Yellow	Fear of Scissors
Mona	Painting	Golden Needle	Sleeves Rolled Up	Yarn Strands Pink	Allergy to Wool
Leo	Origami	Paint Brush	Sleeves Rolled Down	Yarn Strands Yellow	Dislikes Sticky Glue
Henri	Knitting	Golden Needle	Sleeves Rolled Up	Yarn Strands Pink	Dislikes Sticky Glue
Frida	Weaving	Clay Wheel	Sleeves Rolled Down	Yarn Strands Yellow	Fear of Scissors
Kara	Origami	Loom Shuttle	Sleeves Rolled Up	Yarn Strands Pink	Dislikes Sticky Glue
Penny	Painting	Clay Wheel	Sleeves Rolled Up	Yarn Strands Yellow	Dislikes Sticky Glue
Pablo	Painting	Paint Brush	Sleeves Rolled Down	Yarn Strands Blue	Allergy to Wool
Andy	Pottery	Paper Folder	Sleeves Rolled Down	Yarn Strands Yellow	Fear of Scissors
Claude	Pottery	Clay Wheel	Sleeves Rolled Down	Yarn Strands Blue	Allergy to Wool
Sandro	Painting	Paper Folder	Sleeves Rolled Down	Yarn Strands Yellow	Allergy to Wool
Clay	Origami	Golden Needle	Sleeves Rolled Down	Yarn Strands Blue	Fear of Scissors
Raphael	Origami	Clay Wheel	Sleeves Rolled Up	Yarn Strands Yellow	Fear of Scissors
Bess	Weaving	Loom Shuttle	Sleeves Rolled Down	Yarn Strands Pink	Allergy to Wool
Becca	Pottery	Loom Shuttle	Sleeves Rolled Down	Yarn Strands Yellow	Fear of Scissors

CLUE 1 Rounding

The digital scale in the clay room only shows rounded numbers of ounces. Round these clay weights to find the first clue.

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

T																T
1300	4300	500	70	2300	2900	2900	900	2300	130	170	90	500	200	130	90	1300

			T						T						
9000	200	500	1300	4300	500	110	900	2300	130	1300	2000	7000	9000	200	4300

Round 1,330 to the nearest hundred →

T

Round 106 to the nearest ten →

P

Round 6,912 to the nearest thousand →

R

Round 2,311 to the nearest hundred →

I

Round 4,300 to the nearest hundred →

H

Round 172 to the nearest ten →

D

Round 1,588 to the nearest thousand →

B

Round 195 to the nearest hundred →

S

Round 2,927 to the nearest hundred →

L

Round 9,411 to the nearest thousand →

U

Round 855 to the nearest hundred →

A

Round 500 to the nearest hundred →

E

Round 73 to the nearest ten →

V

Round 131 to the nearest ten →

N

Round 93 to the nearest ten →

O

Scratch space:

CLUE 2 Addition

The bead jars were spilled all over the floor. Add up all the colorful wooden beads to solve this clue.

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

T												T					
3267	7460	6181	2138	4133	9128	9128	5357	4133	9729	7460	5357	4059	3267	7460	6181	4133	2761

8768	9128	6181	6181	2138	6181	8768	2761	6127	9128	9128	6181	4059	4059	6127	3606	9729

$1154 + 2113 = \boxed{} \rightarrow \boxed{\text{T}}$

$4594 + 4534 = \boxed{} \rightarrow \boxed{\text{L}}$

$1697 + 3660 = \boxed{} \rightarrow \boxed{\text{A}}$

$4636 + 5093 = \boxed{} \rightarrow \boxed{\text{N}}$

$3449 + 5319 = \boxed{} \rightarrow \boxed{\text{S}}$

$1740 + 1866 = \boxed{} \rightarrow \boxed{\text{W}}$

$3955 + 2226 = \boxed{} \rightarrow \boxed{\text{E}}$

$1021 + 1740 = \boxed{} \rightarrow \boxed{\text{R}}$

$2177 + 1956 = \boxed{} \rightarrow \boxed{\text{I}}$

$3205 + 4255 = \boxed{} \rightarrow \boxed{\text{H}}$

$2086 + 1973 = \boxed{} \rightarrow \boxed{\text{D}}$

$3710 + 2417 = \boxed{} \rightarrow \boxed{\text{O}}$

$891 + 1247 = \boxed{} \rightarrow \boxed{\text{V}}$

Scratch space:

CLUE 3 Subtraction

Some sheets of origami paper are missing from the pack. Subtract the remaining sheets from the total to get the next clue.

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

T																
4425	1356	7690	3679	5559	3943	3943	2426	5559	6558	1964	2426	6558	2426	8343	2426	5556

7562	1964	2530	1216	7249	8535	5559	7249	7249	2530	1964	7249

$$8625 - 4200 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$7280 - 4854 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$8133 - 571 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$7652 - 2093 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$3601 - 2385 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$10590 - 2055 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$11118 - 4560 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$3579 - 2223 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$8277 - 4334 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$5886 - 330 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$5686 - 2007 = \boxed{} \rightarrow \boxed{\text{V}}$$

$$12433 - 4743 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$5309 - 2779 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$2426 - 462 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$9560 - 2311 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$8569 - 226 = \boxed{} \rightarrow \boxed{\text{W}}$$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The yarn baskets are stacked in equal rows in the closet. Multiply the baskets per row by the number of rows to get the clue.

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

Y						Y										
60	50	36	36	99	72	60	6	18	121	9	42	18	6	121	108	9
72	50	18	50	36	50	5	42	16	50	12	96	121	108			

$6 \times 10 = \square \rightarrow \boxed{\text{Y}}$

$7 \times 6 = \square \rightarrow \boxed{\text{T}}$

$2 \times 8 = \square \rightarrow \boxed{\text{B}}$

$3 \times 6 = \square \rightarrow \boxed{\text{R}}$

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

$1 \times 6 = \square \rightarrow \boxed{\text{A}}$

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

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

$12 \times 1 = \square \rightarrow \boxed{\text{H}}$

$1 \times 5 = \square \rightarrow \boxed{\text{F}}$

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

$12 \times 3 = \square \rightarrow \boxed{\text{L}}$

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

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

$9 \times 1 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

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

We need to share these paintbrushes equally among the tables. Divide the brushes to uncover the final clue.

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:

$66 \div 6 = \boxed{}$

$10 \div 2 = \boxed{}$

$20 \div 5 = \boxed{}$

$72 \div 8 = \boxed{}$

$30 \div 10 = \boxed{}$

$60 \div 5 = \boxed{}$

$4 \div 2 = \boxed{}$

$9 \div 9 = \boxed{}$

$30 \div 3 = \boxed{}$

$64 \div 8 = \boxed{}$

$66 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain folded a giant paper crane, then tangled the loom shuttle.
2. The villain knit a messy scarf, then dropped their golden needle.
3. The villain knit a messy scarf, then tangled the loom shuttle.
4. The villain wove a colorful blanket, then tangled the loom shuttle.
5. The villain spun a wild clay pot, then lost their paper folder.
6. The villain painted a huge mural, then dropped their golden needle.
7. The villain spun a wild clay pot, then tangled the loom shuttle.
8. The villain spun a wild clay pot, then knocked over the clay wheel.
9. The villain wove a colorful blanket, then splattered the paint brush.
10. The villain wove a colorful blanket, then lost their paper folder.
11. The villain wove a colorful blanket, then knocked over the clay wheel.
12. The villain spun a wild clay pot, then dropped their golden needle.

Answer Key

The Great Craft Studio Heist

Culprit: Becca

Pottery · Loom Shuttle · Sleeves Rolled Down · Yarn Strands Yellow · Fear of Scissors

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT USE THE PAINT BRUSH"

Round 1,330 to the nearest hundred = 1300 (T) · Round 106 to the nearest ten = 110 (P) · Round 6,912 to the nearest thousand = 7000 (R) · Round 2,311 to the nearest hundred = 2300 (I) · Round 4,300 to the nearest hundred = 4300 (H) · Round 172 to the nearest ten = 170 (D) · Round 1,588 to the nearest thousand = 2000 (B) · Round 195 to the nearest hundred = 200 (S) · Round 2,927 to the nearest hundred = 2900 (L) · Round 9,411 to the nearest thousand = 9000 (U) · Round 855 to the nearest hundred = 900 (A) · Round 500 to the nearest hundred = 500 (E) · Round 73 to the nearest ten = 70 (V) · Round 131 to the nearest ten = 130 (N) · Round 93 to the nearest ten = 90 (O)

Clue 2 (Addition): "THE VILLAIN HAD THEIR SLEEVES ROLLED DOWN"

$1154 + 2113 = 3267$ (T) · $4594 + 4534 = 9128$ (L) · $1697 + 3660 = 5357$ (A) · $4636 + 5093 = 9729$ (N) · $3449 + 5319 = 8768$ (S) · $1740 + 1866 = 3606$ (W) · $3955 + 2226 = 6181$ (E) · $1021 + 1740 = 2761$ (R) · $2177 + 1956 = 4133$ (I) · $3205 + 4255 = 7460$ (H) · $2086 + 1973 = 4059$ (D) · $3710 + 2417 = 6127$ (O) · $891 + 1247 = 2138$ (V)

Clue 3 (Subtraction): "THE VILLAIN RAN AWAY FROM SCISSORS"

$8625 - 4200 = 4425$ (T) · $7280 - 4854 = 2426$ (A) · $8133 - 571 = 7562$ (F) · $7652 - 2093 = 5559$ (I) · $3601 - 2385 = 1216$ (M) · $10590 - 2055 = 8535$ (C) · $11118 - 4560 = 6558$ (N) · $3579 - 2223 = 1356$ (H) · $8277 - 4334 = 3943$ (L) · $5886 - 330 = 5556$ (Y) · $5686 - 2007 = 3679$ (V) · $12433 - 4743 = 7690$ (E) · $5309 - 2779 = 2530$ (O) · $2426 - 462 = 1964$ (R) · $9560 - 2311 = 7249$ (S) · $8569 - 226 = 8343$ (W)

Clue 4 (Multiplication facts (1-12)): "YELLOW YARN STRANDS WERE LEFT BEHIND"

$6 \times 10 = 60$ (Y) · $7 \times 6 = 42$ (T) · $2 \times 8 = 16$ (B) · $3 \times 6 = 18$ (R) · $8 \times 12 = 96$ (I) · $1 \times 6 = 6$ (A) · $10 \times 5 = 50$ (E) · $11 \times 9 = 99$ (O) · $12 \times 1 = 12$ (H) · $1 \times 5 = 5$ (F) · $11 \times 11 = 121$ (N) · $12 \times 3 = 36$ (L) · $8 \times 9 = 72$ (W) · $12 \times 9 = 108$ (D) · $9 \times 1 = 9$ (S)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Becca

$66 \div 6 = 11$ · $10 \div 2 = 5$ · $20 \div 5 = 4$ · $72 \div 8 = 9$ · $30 \div 10 = 3$ · $60 \div 5 = 12$ · $4 \div 2 = 2$ · $9 \div 9 = 1$ · $30 \div 3 = 10$ · $64 \div 8 = 8$ · $66 \div 11 = 6$