



The Blocky Bandit of Crafting Castle

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding · Reading level grades 5-6

Detective: _____ Date: _____

A mystery builder raided the village vault, swiping rare craftables and disrupting the biome grid. Detective, inspect the evidence and calculate the clues to catch the suspect!

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 Rogue Builder is _____

Possible suspects

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

NAME	MAIN TOOL	SPECIAL ITEM	PLACING HABIT	HEADGEAR	TRAP COUNTER
Tubbo Builder	trident launcher	totem of undying	right handed placing	neon green helmet	splash potion of harm
Docm77	diamond sword	potion of swiftness	left handed placing	gold crown	bucket of lava
MumboJumbo	bow of flame	totem of undying	left handed placing	obsidian cowl	iron golem guard
FalseSymmetry	redstone gadget	totem of undying	left handed placing	gold crown	iron golem guard
Pearl Byte	trident launcher	potion of swiftness	left handed placing	neon green helmet	iron golem guard
TommyInnit	redstone gadget	golden apple	left handed placing	neon green helmet	bucket of lava
Cubfan	diamond sword	golden apple	left handed placing	neon green helmet	iron golem guard
DanTDM	redstone gadget	totem of undying	left handed placing	neon green helmet	iron golem guard
GoodTimesWithScar	redstone gadget	elytra wings	left handed placing	gold crown	splash potion of harm
Aphmau	netherite armor	elytra wings	left handed placing	neon green helmet	iron golem guard
Ranboo Redstone	redstone gadget	ender pearl	left handed placing	neon green helmet	splash potion of harm
LDShadowLady	netherite armor	totem of undying	right handed placing	neon green helmet	iron golem guard
StampyCat	trident launcher	potion of swiftness	right handed placing	obsidian cowl	splash potion of harm
Zedaph	bow of flame	golden apple	left handed placing	obsidian cowl	splash potion of harm
Techno Blade	redstone gadget	elytra wings	right handed placing	gold crown	splash potion of harm
Keralis	netherite armor	elytra wings	left handed placing	gold crown	splash potion of harm
Tango Tek	trident launcher	ender pearl	left handed placing	obsidian cowl	bucket of lava
Hermit Etho	diamond sword	totem of undying	left handed placing	neon green helmet	splash potion of harm
SmallishBeans	diamond sword	elytra wings	left handed placing	gold crown	bucket of lava
CaptainSparklez	netherite armor	golden apple	left handed placing	neon green helmet	iron golem guard
Steve Miner	bow of flame	totem of undying	left handed placing	gold crown	splash potion of harm

Fractions of a number

You discover a supply chest filled with shiny emeralds. Calculating what fraction of the loot was stolen narrows down the villain's toolkit.

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

[illegible]

5/10 of 38 = → **T**

$1/5$ of 125 = $\rightarrow$ **G**

$3/6$ of $10 = \boxed{} \rightarrow \mathbf{D}$

$1/2$ of 58 = $\rightarrow$ **0**

4/10 of 30 = → **E**

$\frac{1}{2}$ of 54 = $\rightarrow$ **A**

4/8 of 8 = → **Y**

5/6 of 24 = → **V**

$$2/8 \text{ of } 72 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$2/8 \text{ of } 148 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2/4 \text{ of } 60 = \boxed{} \rightarrow \boxed{\text{W}}$$

$\frac{4}{5}$ of 10 = $\rightarrow$ **U**

5/10 of 48 = → **N**

$2/10$ of 55 = $\rightarrow$ **S**

$6/8$ of $28 = \boxed{} \rightarrow \boxed{\text{I}}$

$$\frac{1}{4} \text{ of } 64 = \boxed{} \rightarrow \boxed{\text{L}}$$

Scratch space:

CLUE 2

Order of operations

A complex redstone lock protects the inner vault. Solving the correct order of steps opens a log book revealing suspect habits.

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

A									A									
64	54	27	14	62	39	60	60	60	64	54	53	39	36	14				
	A							A				A						
6	64	62	31	39	31	16	53	64	29	27	62	46	64	14	60	27	14	39

$11 \times 6 - 2 = \square \rightarrow \boxed{\text{A}}$

$22 + 4 \times 6 = \square \rightarrow \boxed{\text{G}}$

$10 \times 2 - 4 = \square \rightarrow \boxed{\text{P}}$

$5 + 3 \times 3 = \square \rightarrow \boxed{\text{T}}$

$50 + 2 \times 6 = \square \rightarrow \boxed{\text{N}}$

$5 \times 12 - 24 = \square \rightarrow \boxed{\text{F}}$

$9 \times 9 - 21 = \square \rightarrow \boxed{\text{S}}$

$5 \times 12 - 6 = \square \rightarrow \boxed{\text{W}}$

$6 \times 10 - 21 = \square \rightarrow \boxed{\text{E}}$

$19 + 4 \times 3 = \square \rightarrow \boxed{\text{D}}$

$11 \times 7 - 24 = \square \rightarrow \boxed{\text{L}}$

$2 + 2 \times 2 = \square \rightarrow \boxed{\text{H}}$

$5 \times 7 - 6 = \square \rightarrow \boxed{\text{C}}$

$15 + 6 \times 2 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

Multiplication facts (1-12)

The village blacksmith counted rows of smashed iron blocks near the blast. Multiplying these blocks reveals how the culprit broke through.

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

A 2x10 grid of boxes. The top row contains the following values from left to right: 80 (with an orange 'T' above it), 8, 36, 24, 66, 44, 16, 36, 35, 81, 5, 5, 80 (with an orange 'T' above it), 81, 108, 108, 36, 60. The bottom row contains the following values from left to right: 70, 48, 121, 24, 66, 25, 44, 66, 108, 36, 11, 44, 16, 81, 24, 60.

$10 \times 8 = \boxed{} \rightarrow \boxed{\text{T}}$

$$6 \times 6 = \boxed{} \rightarrow \boxed{\text{E}}$$

$4 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{Y}}$

$5 \times 5 = \boxed{} \rightarrow \boxed{\text{N}}$

$2 \times 12 = \boxed{} \rightarrow \boxed{\text{R}}$

$11 \times 4 = \boxed{} \rightarrow \boxed{\text{G}}$

$$8 \times 1 = \boxed{} \rightarrow \boxed{\text{H}}$$

$10 \times 7 = \boxed{} \rightarrow \mathbf{B}$

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

$$11 \times 1 = \boxed{} \rightarrow \boxed{\text{M}}$$

$12 \times 9 = \boxed{} \rightarrow \boxed{\text{L}}$

$9 \times 9 =$ $\rightarrow$ **A**

$$6 \times 11 = \boxed{} \rightarrow \boxed{0}$$

$4 \times 4 = \square \rightarrow \boxed{\mathbf{U}}$

$12 \times 5 = \boxed{} \rightarrow \mathbf{D}$

$$5 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$$5 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

Scratch space:

CLUE 4

The coordinates on your locator map only show rounded block values. Approximating the distances shows where the suspect discarded evidence.

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

Diagram illustrating a sequence of 20 boxes (10 in the top row and 10 in the bottom row) with numbers below them. The first and seventh boxes in the top row are orange and contain the letter 'S'.

Top row numbers (from left to right): 30, 70, 9000, 110, 90, 20, 30, 3700, 1100, 9000, 1100, 2900, 7000, 200, 90, 20, 90, 1100, 110, 9000.

Bottom row numbers (from left to right): 110, 90, 1100, 7000, 90, 130, 9000, 1100, 1100, 90, 500, 1100, 230, 50, 1100, 70.

Round 34 to the nearest ten $\rightarrow$ **S**

Round 8,925 to the nearest thousand $\rightarrow$ **R**

Round 161 to the nearest hundred → **U**

Round 113 to the nearest ten $\rightarrow$ **A**

Round 19 to the nearest ten $\rightarrow$ **D**

Round 484 to the nearest hundred → **H**

Round 90 to the nearest ten $\rightarrow$ **N**

Round 130 to the nearest ten → **G**

Round 232 to the nearest ten $\rightarrow$ **L**

Round 7,154 to the nearest thousand $\rightarrow$

Round 2,890 to the nearest hundred → **F**

Round 3,692 to the nearest hundred $\rightarrow$ **W**

Round 72 to the nearest ten $\rightarrow$ **T**

Round 54 to the nearest ten $\rightarrow$ **M**

Round 1,069 to the nearest hundred → **E**

Scratch space:

CLUE 5**Fractions of a number - the last clue**

You find a stack of obsidian blocks left at the escape portal. Calculating the fraction of carved blocks leads to the final piece of proof.

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:

$2/6 \text{ of } 27 = \boxed{}$

$1/3 \text{ of } 6 = \boxed{}$

$2/4 \text{ of } 14 = \boxed{}$

$1/6 \text{ of } 24 = \boxed{}$

$1/4 \text{ of } 4 = \boxed{}$

$6/10 \text{ of } 10 = \boxed{}$

$2/10 \text{ of } 40 = \boxed{}$

$8/10 \text{ of } 15 = \boxed{}$

$1/2 \text{ of } 6 = \boxed{}$

$2/10 \text{ of } 55 = \boxed{}$

$1/10 \text{ of } 100 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain donned heavy netherite armor, then soared off with elytra wings.
2. The villain donned heavy netherite armor, then chomped a golden apple.
3. The villain swung a diamond sword, then chugged a potion of swiftness.
4. The villain swung a diamond sword, then clutched a totem of undying.
5. The villain swung a diamond sword, then chomped a golden apple.
6. The villain donned heavy netherite armor, then chugged a potion of swiftness.
7. The villain launched a trident, then chugged a potion of swiftness.
8. The villain fired a bow of flame, then chugged a potion of swiftness.
9. The villain triggered a redstone gadget, then clutched a totem of undying.
10. The villain launched a trident, then soared off with elytra wings.
11. The villain swung a diamond sword, then soared off with elytra wings.
12. The villain fired a bow of flame, then warped away with an ender pearl.

Answer Key

The Blocky Bandit of Crafting Castle

Culprit: Cubfan

diamond sword · golden apple · left handed placing · neon green helmet · iron golem guard

Trail: Start 21 → Clue 1 16 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT USE ELYTRA WINGS"

$5/10$ of 38 = 19 (T) · $1/5$ of 125 = 25 (G) · $3/6$ of 10 = 5 (D) · $1/2$ of 58 = 29 (O) · $4/10$ of 30 = 12 (E) · $1/2$ of 54 = 27 (A) · $4/8$ of 8 = 4 (Y) · $5/6$ of 24 = 20 (V) · $2/8$ of 72 = 18 (R) · $2/8$ of 148 = 37 (H) · $2/4$ of 60 = 30 (W) · $4/5$ of 10 = 8 (U) · $5/10$ of 48 = 24 (N) · $2/10$ of 55 = 11 (S) · $6/8$ of 28 = 21 (I) · $1/4$ of 64 = 16 (L)

Clue 2 (Order of operations): "A WITNESS SAW LEFT HANDED PLACING AT SITE"

$11 \times 6 - 2 = 64$ (A) · $22 + 4 \times 6 = 46$ (G) · $10 \times 2 - 4 = 16$ (P) · $5 + 3 \times 3 = 14$ (T) · $50 + 2 \times 6 = 62$ (N) · $5 \times 12 - 24 = 36$ (F) · $9 \times 9 - 21 = 60$ (S) · $5 \times 12 - 6 = 54$ (W) · $6 \times 10 - 21 = 39$ (E) · $19 + 4 \times 3 = 31$ (D) · $11 \times 7 - 24 = 53$ (L) · $2 + 2 \times 2 = 6$ (H) · $5 \times 7 - 6 = 29$ (C) · $15 + 6 \times 2 = 27$ (I)

Clue 3 (Multiplication facts (1-12)): "THE ROGUE WAS STALLED BY IRON GOLEM GUARD"

$10 \times 8 = 80$ (T) · $6 \times 6 = 36$ (E) · $4 \times 12 = 48$ (Y) · $5 \times 5 = 25$ (N) · $2 \times 12 = 24$ (R) · $11 \times 4 = 44$ (G) · $8 \times 1 = 8$ (H) · $10 \times 7 = 70$ (B) · $11 \times 11 = 121$ (I) · $11 \times 1 = 11$ (M) · $12 \times 9 = 108$ (L) · $9 \times 9 = 81$ (A) · $6 \times 11 = 66$ (O) · $4 \times 4 = 16$ (U) · $12 \times 5 = 60$ (D) · $5 \times 1 = 5$ (S) · $5 \times 7 = 35$ (W)

Clue 4 (Rounding): "STRANDS WERE FOUND NEAR A NEON GREEN HELMET"

Round 34 to the nearest ten = 30 (S) · Round 8,925 to the nearest thousand = 9000 (R) · Round 161 to the nearest hundred = 200 (U) · Round 113 to the nearest ten = 110 (A) · Round 19 to the nearest ten = 20 (D) · Round 484 to the nearest hundred = 500 (H) · Round 90 to the nearest ten = 90 (N) · Round 130 to the nearest ten = 130 (G) · Round 232 to the nearest ten = 230 (L) · Round 7,154 to the nearest thousand = 7000 (O) · Round 2,890 to the nearest hundred = 2900 (F) · Round 3,692 to the nearest hundred = 3700 (W) · Round 72 to the nearest ten = 70 (T) · Round 54 to the nearest ten = 50 (M) · Round 1,069 to the nearest hundred = 1100 (E)

Clue 5 (Fractions of a number): surviving statement is box 5 → Cubfan

$2/6$ of 27 = 9 · $1/3$ of 6 = 2 · $2/4$ of 14 = 7 · $1/6$ of 24 = 4 · $1/4$ of 4 = 1 · $6/10$ of 10 = 6 · $2/10$ of 40 = 8 · $8/10$ of 15 = 12 · $1/2$ of 6 = 3 · $2/10$ of 55 = 11 · $1/10$ of 100 = 10