



The Sub Zero Kaiju Mech Sabotage

Grade 5 math · Subtraction, Addition, Multiplication, Fractions of a number, Division · Reading level grades 5-6

Detective: _____ Date: _____

During the championship finals between giant mech teams, someone damaged the rink generator and escaped into the stadium dark. Clues left behind will help identify the culprit.

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 saboteur is _____

Possible suspects

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

NAME	PRIMARY MECH WEAPON	SECONDARY GEAR	SHOOTING STANCE	MECH HELMET CREST	COUNTERMEASURE
Ryan	titan shield	seismic tail	right handed	neon green crest	loud whistle
Cale Makar	rocket skates	hyper drill	right handed	neon green crest	loud whistle
Donnie	titan shield	plasma visor	right handed	cobalt blue spike	loud whistle
David Pastrnak	rocket skates	seismic tail	left handed	cobalt blue spike	loud whistle
Mitch Marner	frost beam	seismic tail	right handed	neon green crest	bright spotlight
Patrick Kane	magma blaster	seismic tail	left handed	fiery red mane	freezing blast
Sidney Crosby	titan shield	sonic horn	left handed	fiery red mane	freezing blast
Steven Stamkos	titan shield	plasma visor	right handed	fiery red mane	bright spotlight
Nathan MacKinnon	frost beam	hyper drill	right handed	cobalt blue spike	freezing blast
Auston Matthews	titan shield	plasma visor	right handed	neon green crest	freezing blast
Elias Pettersson	laser stick	sonic horn	left handed	cobalt blue spike	bright spotlight
Connor McDavid	laser stick	plasma visor	right handed	fiery red mane	freezing blast
Roman	rocket skates	turbo booster	right handed	neon green crest	loud whistle
Leon Draisaitl	laser stick	plasma visor	right handed	neon green crest	loud whistle
Mikko Rantanen	frost beam	plasma visor	left handed	fiery red mane	freezing blast
Jack Hughes	magma blaster	hyper drill	right handed	neon green crest	freezing blast
Marc Andre Fleury	rocket skates	sonic horn	right handed	cobalt blue spike	bright spotlight
Artemi Panarin	frost beam	plasma visor	right handed	neon green crest	loud whistle
Alex Ovechkin	rocket skates	turbo booster	left handed	fiery red mane	loud whistle
Roman Josi	magma blaster	hyper drill	right handed	fiery red mane	bright spotlight
Wayne Gretzky	magma blaster	sonic horn	left handed	neon green crest	loud whistle

CLUE 1 Subtraction

Coach Donnie checked the rink equipment locker after the power surge and calculated how many mech pucks were missing.

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

T																T
5680	1051	6027	2734	3777	5499	5499	7799	3777	5111	1586	7560	6027	1754	5111	7560	5680

										T				
1106	1754	6027	7799	1754	6027	3777	1754	2467	3777	6582	5680	7799	3777	5499

$10303 - 4623 = \square \rightarrow \text{**T**}$

$2485 - 731 = \square \rightarrow \text{**S**}$

$8223 - 424 = \square \rightarrow \text{**A**}$

$5379 - 4273 = \square \rightarrow \text{**U**}$

$4494 - 2908 = \square \rightarrow \text{**D**}$

$7325 - 743 = \square \rightarrow \text{**C**}$

$10073 - 2513 = \square \rightarrow \text{**O**}$

$10946 - 4919 = \square \rightarrow \text{**E**}$

$6494 - 2717 = \square \rightarrow \text{**I**}$

$5516 - 2782 = \square \rightarrow \text{**V**}$

$5532 - 3065 = \square \rightarrow \text{**M**}$

$7391 - 2280 = \square \rightarrow \text{**N**}$

$5202 - 4151 = \square \rightarrow \text{**H**}$

$10128 - 4629 = \square \rightarrow \text{**L**}$

Scratch space:

CLUE 2

Addition

Roman counted the total energy batteries stored in the stadium locker rooms to keep the floodlights on.

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

T					T											T		
3861	7788	8460	8654	3934	3861	6403	8460	4328	4328	4328	4109	8654	4109	2818	3934	4294	7788	3861

										T		
7788	4109	6403	8136	8460	8136	4328	7788	3767	3767	3861	8460	2818

$1894 + 1967 = \square \rightarrow \mathbf{T}$

$2443 + 1666 = \square \rightarrow \mathbf{A}$

$3507 + 4953 = \square \rightarrow \mathbf{E}$

$5520 + 3134 = \square \rightarrow \mathbf{W}$

$1080 + 1738 = \square \rightarrow \mathbf{R}$

$2733 + 1201 = \square \rightarrow \mathbf{I}$

$3521 + 4267 = \square \rightarrow \mathbf{H}$

$2613 + 1715 = \square \rightarrow \mathbf{S}$

$2067 + 2227 = \square \rightarrow \mathbf{G}$

$1591 + 2176 = \square \rightarrow \mathbf{O}$

$2084 + 4319 = \square \rightarrow \mathbf{N}$

$3133 + 5003 = \square \rightarrow \mathbf{D}$

Scratch space:

CLUE 3
Multiplication facts (1-12)

Ryan tallied the rows of replacement titan skates stacked along the arena wall.

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

A																
10	77	32	18	63	15	11	50	1	8	77	5	63	7	32	108	5

						A				A			
8	11	5	108	50	77	77	10	50	80	3	10	20	14

$5 \times 2 = \square \rightarrow \text{A}$

$5 \times 10 = \square \rightarrow \text{I}$

$8 \times 4 = \square \rightarrow \text{O}$

$11 \times 1 = \square \rightarrow \text{H}$

$12 \times 9 = \square \rightarrow \text{V}$

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

$7 \times 2 = \square \rightarrow \text{K}$

$10 \times 8 = \square \rightarrow \text{N}$

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

$3 \times 5 = \square \rightarrow \text{W}$

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

$4 \times 2 = \square \rightarrow \text{T}$

$1 \times 3 = \square \rightarrow \text{B}$

$5 \times 1 = \square \rightarrow \text{E}$

$9 \times 2 = \square \rightarrow \text{U}$

$10 \times 2 = \square \rightarrow \text{C}$

$7 \times 9 = \square \rightarrow \text{D}$

Scratch space:

CLUE 4
Fractions of a number

The maintenance crew measured what fraction of the main power grid was still running after the blackout.

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

A																		
22	34	10	15	34	35	30	10	10	34	36	30	10	14	20				
			A				A											
14	20	30	22	34	39	8	22	14	28	10	17	20	32	10	24	3	34	39

$2/8 \text{ of } 88 = \square \rightarrow \text{A}$

$2/5 \text{ of } 35 = \square \rightarrow \text{S}$

$3/8 \text{ of } 80 = \square \rightarrow \text{R}$

$5/8 \text{ of } 24 = \square \rightarrow \text{O}$

$5/10 \text{ of } 48 = \square \rightarrow \text{H}$

$4/8 \text{ of } 16 = \square \rightarrow \text{W}$

$2/10 \text{ of } 175 = \square \rightarrow \text{G}$

$2/4 \text{ of } 34 = \square \rightarrow \text{F}$

$3/10 \text{ of } 130 = \square \rightarrow \text{D}$

$1/4 \text{ of } 112 = \square \rightarrow \text{L}$

$3/6 \text{ of } 72 = \square \rightarrow \text{C}$

$4/8 \text{ of } 68 = \square \rightarrow \text{N}$

$2/4 \text{ of } 40 = \square \rightarrow \text{T}$

$2/5 \text{ of } 80 = \square \rightarrow \text{B}$

$2/3 \text{ of } 15 = \square \rightarrow \text{E}$

$2/10 \text{ of } 15 = \square \rightarrow \text{I}$

Scratch space:

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

Chief Engineer Donnie divided the remaining pulse sticks equally among the defending mech pilots.

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:

$3 \div 1 = \boxed{}$

$20 \div 10 = \boxed{}$

$60 \div 5 = \boxed{}$

$90 \div 10 = \boxed{}$

$54 \div 9 = \boxed{}$

$5 \div 1 = \boxed{}$

$24 \div 6 = \boxed{}$

$96 \div 12 = \boxed{}$

$56 \div 8 = \boxed{}$

$44 \div 4 = \boxed{}$

$50 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain activated rocket skates, then revved the hyper drill.
2. The villain activated rocket skates, then engaged the turbo booster.
3. The villain shot the frost beam, then calibrated the plasma visor.
4. The villain raised the titan shield, then swung the seismic tail.
5. The villain activated rocket skates, then sounded the sonic horn.
6. The villain fired the laser stick, then engaged the turbo booster.
7. The villain shot the frost beam, then sounded the sonic horn.
8. The villain fired the laser stick, then revved the hyper drill.
9. The villain blasted the magma blaster, then swung the seismic tail.
10. The villain activated rocket skates, then swung the seismic tail.
11. The villain activated rocket skates, then calibrated the plasma visor.
12. The villain fired the laser stick, then calibrated the plasma visor.

Answer Key

The Sub Zero Kaiju Mech Sabotage

Culprit: Cale Makar

rocket skates · hyper drill · right handed · neon green crest · loud whistle

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

Clue 1 (Subtraction): "THE VILLAIN DOES NOT USE A SEISMIC TAIL"

$10303 - 4623 = 5680$ (T) · $2485 - 731 = 1754$ (S) · $8223 - 424 = 7799$ (A) · $5379 - 4273 = 1106$ (U) · $4494 - 2908 = 1586$ (D) · $7325 - 743 = 6582$ (C) · $10073 - 2513 = 7560$ (O) · $10946 - 4919 = 6027$ (E) · $6494 - 2717 = 3777$ (I) · $5516 - 2782 = 2734$ (V) · $5532 - 3065 = 2467$ (M) · $7391 - 2280 = 5111$ (N) · $5202 - 4151 = 1051$ (H) · $10128 - 4629 = 5499$ (L)

Clue 2 (Addition): "THE WITNESS SAW A RIGHT HANDED SHOOTER"

$1894 + 1967 = 3861$ (T) · $2443 + 1666 = 4109$ (A) · $3507 + 4953 = 8460$ (E) · $5520 + 3134 = 8654$ (W) · $1080 + 1738 = 2818$ (R) · $2733 + 1201 = 3934$ (I) · $3521 + 4267 = 7788$ (H) · $2613 + 1715 = 4328$ (S) · $2067 + 2227 = 4294$ (G) · $1591 + 2176 = 3767$ (O) · $2084 + 4319 = 6403$ (N) · $3133 + 5003 = 8136$ (D)

Clue 3 (Multiplication facts (1-12)): "A LOUD WHISTLE DROVE THE VILLAIN BACK"

$5 \times 2 = 10$ (A) · $5 \times 10 = 50$ (I) · $8 \times 4 = 32$ (O) · $11 \times 1 = 11$ (H) · $12 \times 9 = 108$ (V) · $1 \times 1 = 1$ (S) · $7 \times 2 = 14$ (K) · $10 \times 8 = 80$ (N) · $11 \times 7 = 77$ (L) · $3 \times 5 = 15$ (W) · $7 \times 1 = 7$ (R) · $4 \times 2 = 8$ (T) · $1 \times 3 = 3$ (B) · $5 \times 1 = 5$ (E) · $9 \times 2 = 18$ (U) · $10 \times 2 = 20$ (C) · $7 \times 9 = 63$ (D)

Clue 4 (Fractions of a number): "A NEON GREEN CREST STRAND WAS LEFT BEHIND"

$2/8$ of 88 = 22 (A) · $2/5$ of 35 = 14 (S) · $3/8$ of 80 = 30 (R) · $5/8$ of 24 = 15 (O) · $5/10$ of 48 = 24 (H) · $4/8$ of 16 = 8 (W) · $2/10$ of 175 = 35 (G) · $2/4$ of 34 = 17 (F) · $3/10$ of 130 = 39 (D) · $1/4$ of 112 = 28 (L) · $3/6$ of 72 = 36 (C) · $4/8$ of 68 = 34 (N) · $2/4$ of 40 = 20 (T) · $2/5$ of 80 = 32 (B) · $2/3$ of 15 = 10 (E) · $2/10$ of 15 = 3 (I)

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

$3 \div 1 = 3$ · $20 \div 10 = 2$ · $60 \div 5 = 12$ · $90 \div 10 = 9$ · $54 \div 9 = 6$ · $5 \div 1 = 5$ · $24 \div 6 = 4$ · $96 \div 12 = 8$ · $56 \div 8 = 7$ · $44 \div 4 = 11$ · $50 \div 5 = 10$