



The Rumble Mania Mystery

Grade 10 math · Place value, Word problems, Bar models, Multi-step word problems, Missing addends · Reading level grades 7-9

Detective: _____ Date: _____

The Backyard Wrestling Championship Belt has been stolen right before the main event! The Head Referee was locked in the gear closet, and the locker room is full of giant reptiles, WWE champions, and local kids. We have to crack the case before the final bell rings!

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 Championship Crasher is _____

Possible suspects

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

NAME	SIGNATURE MOVE	SPECIAL BUFF	WRIST PREP	HAIR STYLE	MATCH DISTRACTION
Rhea Ripley	tail swipe	fire immunity	wears left wrist tape	slicked back dark hair	distracted by shiny belts
Donnie Jr	spear tackle	fire immunity	wears left wrist tape	wild neon green hair	slips on banana peels
King Ghidorah	elbow drop	sonic roar	wears right wrist tape	slicked back dark hair	slips on banana peels
King Kong	steel chair smash	super strength	wears left wrist tape	slicked back dark hair	distracted by shiny belts
Jey Uso	spear tackle	invisible dodge	wears left wrist tape	slicked back dark hair	slips on banana peels
Zilla Reigns	tail swipe	super strength	wears right wrist tape	slicked back dark hair	distracted by shiny belts
Hulk Hogan	elbow drop	invisible dodge	wears left wrist tape	wild neon green hair	scared of loud airhorns
The Undertaker	spear tackle	flight warp	wears right wrist tape	slicked back dark hair	distracted by shiny belts
Seth Rollins	elbow drop	flight warp	wears right wrist tape	wild neon green hair	slips on banana peels
Solo Sikoa	elbow drop	super strength	wears left wrist tape	slicked back dark hair	slips on banana peels
Mothra	spear tackle	flight warp	wears left wrist tape	wild neon green hair	distracted by shiny belts
Gamera	steel chair smash	flight warp	wears right wrist tape	wild neon green hair	distracted by shiny belts
Bianca Belair	tail swipe	sonic roar	wears right wrist tape	spiky black mohawk	scared of loud airhorns
Cody Rhodes	atomic breath	sonic roar	wears left wrist tape	slicked back dark hair	distracted by shiny belts
Mecha Donnie	atomic breath	invisible dodge	wears left wrist tape	slicked back dark hair	distracted by shiny belts
Gigan	atomic breath	sonic roar	wears left wrist tape	spiky black mohawk	distracted by shiny belts
Jimmy Uso	tail swipe	super strength	wears left wrist tape	spiky black mohawk	slips on banana peels
John Cena	steel chair smash	fire immunity	wears right wrist tape	slicked back dark hair	scared of loud airhorns
Donnie Roman	tail swipe	invisible dodge	wears right wrist tape	spiky black mohawk	distracted by shiny belts
Godzilla	elbow drop	invisible dodge	wears right wrist tape	slicked back dark hair	slips on banana peels
Randy Orton	tail swipe	super strength	wears left wrist tape	slicked back dark hair	distracted by shiny belts

CLUE 1

The locker room security terminal displays a scrambled digit code based on locker numbers. Let's look at the place values to unlock the first clue file.

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

[illegible]

What is the value of the 1 in 401,003? → **T**

What is the value of the 4 in 636,428? → **L**

What is the value of the 2 in 382,508? → **R**

What is the value of the 2 in 446,265? → **D**

What is the value of the 7 in 315,174? →

What is the value of the 2 in 915,320? → **S**

What is the value of the 6 in 90,465? → **H**

What is the value of the 5 in 62,587? → **A**

What is the value of the 4 in 83,542? → **C**

What is the value of the 7 in 287,356? →

What is the value of the 9 in 10,944? → **E**

What is the value of the 8 in 72,814? → **V**

What is the value of the 3 in 96,387? → **N**

Scratch space:

CLUE 2

Word problems

The referee left a notebook listing training match schedules. To figure out who was training near the vault, we need to solve these match problems.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was

W								T	W		I		T	T		P	
109	64	62	59	108	96	64	67		109	59		108		62		64	

Referee found 94 folding chairs yesterday and 15 more today. How many folding chairs in all?

Answer: → **W**

There were 99 championship belts. 35 were used up. How many championship belts are left?

Answer: → **E**

Referee found 46 glow sticks yesterday and 62 more today. How many glow sticks in all?

Answer: → **S**

There were 82 glow sticks. 20 were used up. How many glow sticks are left?

Answer: → **A**

Referee lined up 12 rows of 8 folding chairs. How many folding chairs in all?

Answer: → **L**

Referee found 63 elbow pads yesterday and 4 more today. How many elbow pads in all?

Answer: → **F**

There were 91 folding chairs. 32 were used up. How many folding chairs are left?

Answer: → **R**

Scratch space:

CLUE 3

Bar model word problems

We found a training chart on the wall that compares the heights of the superstars using bar models. Solving this reveals clues about the suspect's physical profile.

Draw a bar model to solve each word problem, then write its letter in the boxes to fill in the missing word.

Someone scared the villain off with



Referee used $\frac{1}{2}$ of the glow sticks on the first day. The other 72 glow sticks were used the next day. How many glow sticks were there in all?

draw a bar model

Answer: → **D**

Referee has 190 protein shakes, packed 2 to a bag. How many bags can be filled?

draw a bar model

Answer: → **C**

Referee has 195 elbow pads, packed 3 to a bag. How many bags can be filled?

draw a bar model

Answer: → **A**

There were 56 protein shakes in all. 35 protein shakes were used. How many protein shakes are left?

draw a bar model

Answer: → **T**

Referee has 201 glow sticks, packed 3 to a bag. How many bags can be filled?

draw a bar model

Answer: → **I**

The red team has 130 protein shakes and the blue team has 5 protein shakes. How many more protein shakes does the red team have?

draw a bar model

Answer: → **R**

Referee shares 192 elbow pads equally among 2 teams. How many elbow pads does each team get?

draw a bar model

Answer: → **S**

CLUE 4

Multi-step word problems

The stadium energy grid went down in stages. If we solve this multi-step power usage puzzle, we can pinpoint the suspect's escape route.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A strand of

S

B
A

A
R

H
A

R hair

turned up at the scene.

There were 58 championship belts in all. 23 championship belts were set aside. The rest were shared equally among 5 The Bloodline Crew. How many championship belts did each get?

Answer: → S

There were 554 protein shakes in all. 23 protein shakes were set aside. The rest were shared equally among 9 The Bloodline Crew. How many protein shakes did each get?

Answer: → K

Referee collected 176 glow sticks in the morning and 189 glow sticks in the afternoon, then split them equally among 5 The Bloodline Crew. How many glow sticks did each get?

Answer: → D

There were 328 elbow pads in all. 2 The Bloodline Crew used 20 elbow pads each. The other 4 The Bloodline Crew shared the rest equally. How many elbow pads did each of the other The Bloodline Crew get?

Answer: → C

Referee earned 8 glow sticks in each of 4 rounds, plus 23 bonus glow sticks. Then 9 glow sticks were lost. How many glow sticks are left?

Answer: → L

There were 281 folding chairs in all. 29 folding chairs were set aside. The rest were shared equally among 7 The Bloodline Crew. How many folding chairs did each get?

Answer: → E

There were 130 protein shakes in all. 4 The Bloodline Crew used 22 protein shakes each. The other 2 The Bloodline Crew shared the rest equally. How many protein shakes did each of the other The Bloodline Crew get?

Answer: → I

Scratch space:

CLUE 5**Missing addends - the last clue**

The championship trophy case has several empty slots. We need to calculate the missing trophy weights to unlock the final backup camera.

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:

$30 + \underline{\quad} = 34$

$29 + \underline{\quad} = 35$

$19 + \underline{\quad} = 24$

$19 + \underline{\quad} = 31$

$37 + \underline{\quad} = 40$

$28 + \underline{\quad} = 36$

$38 + \underline{\quad} = 40$

$40 + \underline{\quad} = 47$

$8 + \underline{\quad} = 17$

$25 + \underline{\quad} = 36$

$11 + \underline{\quad} = 12$

Step 2 - cross out the sentence with each answer:

1. The villain delivered a flying elbow drop, then dodged completely invisible.
2. The villain cleared the room with a tail swipe, then warped away in a flash.
3. The villain swung a heavy steel chair, then warped away in a flash.
4. The villain cleared the room with a tail swipe, then walked through fire unharmed.
5. The villain unleashed a glowing atomic breath, then dodged completely invisible.
6. The villain cleared the room with a tail swipe, then showed off incredible super strength.
7. The villain unleashed a glowing atomic breath, then showed off incredible super strength.
8. The villain cleared the room with a tail swipe, then shook the arena with a sonic roar.
9. The villain unleashed a glowing atomic breath, then walked through fire unharmed.
10. The villain swung a heavy steel chair, then showed off incredible super strength.
11. The villain swung a heavy steel chair, then dodged completely invisible.
12. The villain swung a heavy steel chair, then walked through fire unharmed.

Answer Key

The Rumble Mania Mystery

Culprit: King Kong

steel chair smash · super strength · wears left wrist tape · slicked back dark hair · distracted by shiny belts

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT HAVE A SONIC ROAR"

What is the value of the 1 in 401,003? = 1000 (T) · What is the value of the 4 in 636,428? = 400 (L) · What is the value of the 2 in 382,508? = 2000 (R) · What is the value of the 2 in 446,265? = 200 (D) · What is the value of the 7 in 315,174? = 70 (O) · What is the value of the 2 in 915,320? = 20 (S) · What is the value of the 6 in 90,465? = 60 (H) · What is the value of the 5 in 62,587? = 500 (A) · What is the value of the 4 in 83,542? = 40 (C) · What is the value of the 7 in 287,356? = 7000 (I) · What is the value of the 9 in 10,944? = 900 (E) · What is the value of the 8 in 72,814? = 800 (V) · What is the value of the 3 in 96,387? = 300 (N)

Clue 2 (Word problems): "WEARS LEFT WRIST TAPE"

Referee found 94 folding chairs yesterday and 15 more today. How many folding chairs in all? = 109 (W) · There were 99 championship belts. 35 were used up. How many championship belts are left? = 64 (E) · Referee found 46 glow sticks yesterday and 62 more today. How many glow sticks in all? = 108 (S) · There were 82 glow sticks. 20 were used up. How many glow sticks are left? = 62 (A) · Referee lined up 12 rows of 8 folding chairs. How many folding chairs in all? = 96 (L) · Referee found 63 elbow pads yesterday and 4 more today. How many elbow pads in all? = 67 (F) · There were 91 folding chairs. 32 were used up. How many folding chairs are left? = 59 (R)

Clue 3 (Bar model word problems): "DISTRACTED BY SHINY BELTS"

Referee used $\frac{1}{2}$ of the glow sticks on the first day. The other 72 glow sticks were used the next day. How many glow sticks were there in all? = 144 (D) · Referee has 190 protein shakes, packed 2 to a bag. How many bags can be filled? = 95 (C) · Referee has 195 elbow pads, packed 3 to a bag. How many bags can be filled? = 65 (A) · There were 56 protein shakes in all. 35 protein shakes were used. How many protein shakes are left? = 21 (T) · Referee has 201 glow sticks, packed 3 to a bag. How many bags can be filled? = 67 (I) · The red team has 130 protein shakes and the blue team has 5 protein shakes. How many more protein shakes does the red team have? = 125 (R) · Referee shares 192 elbow pads equally among 2 teams. How many elbow pads does each team get? = 96 (S)

Clue 4 (Multi-step word problems): "SLICKED BACK DARK HAIR"

There were 58 championship belts in all. 23 championship belts were set aside. The rest were shared equally among 5 The Bloodline Crew. How many championship belts did each get? = 7 (S) · There were 554 protein shakes in all. 23 protein shakes were set aside. The rest were shared equally among 9 The Bloodline Crew. How many protein shakes did each get? = 59 (K) · Referee collected 176 glow sticks in the morning and 189 glow sticks in the afternoon, then split them equally among 5 The Bloodline Crew. How many glow sticks did each get? = 73 (D) · There were 328 elbow pads in all. 2 The Bloodline Crew used 20 elbow pads each. The other 4 The Bloodline Crew shared the rest equally. How many elbow pads did each of the other The Bloodline Crew get? = 72 (C) · Referee earned 8 glow sticks in each of 4 rounds, plus 23 bonus glow sticks. Then 9 glow sticks were lost. How many glow sticks are left? = 46 (L) · There were 281 folding chairs in all. 29 folding chairs were set aside. The rest were shared equally among 7 The Bloodline Crew. How many folding chairs did each get? = 36 (E) · There were 130 protein shakes in all. 4 The Bloodline Crew used 22 protein shakes each. The other 2 The Bloodline Crew shared the rest equally. How many protein shakes did each of the other The Bloodline Crew get? = 21 (I)

Clue 5 (Missing addends): surviving statement is box 10 → King Kong

$30 + \underline{\quad} = 34 = 4$ · $29 + \underline{\quad} = 35 = 6$ · $19 + \underline{\quad} = 24 = 5$ · $19 + \underline{\quad} = 31 = 12$ · $37 + \underline{\quad} = 40 = 3$ · $28 + \underline{\quad} = 36 = 8$ · $38 + \underline{\quad} = 40 = 2$ · $40 + \underline{\quad} = 47 = 7$ · $8 + \underline{\quad} = 17 = 9$ · $25 + \underline{\quad} = 36 = 11$ · $11 + \underline{\quad} = 12 = 1$