



The Great Swine Slam Mystery

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

Detective: _____ Date: _____

Someone snuck into Oink Arena right before the pig basketball championship game and swapped the official game ball with a heavy mud brick!

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 Court 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	MASCOT GEAR	SHOOTING HAND	SNOUT CAP	SNACK DISTRACTION
Bam Adebayo	Sky Hook	Foam Hoof	Left Handed	Green Cap	Acorn Chips
Stephen Curry	Swish Three	Bacon Sweatband	Right Handed	Blue Cap	Acorn Chips
Penny Hardaway	Swish Three	Mud Goggles	Left Handed	Green Cap	Crunchy Apples
Kevin Durant	Swish Three	Pig Tail Cape	Left Handed	Red Cap	Crunchy Apples
Nikola Jokic	Sky Hook	Bacon Sweatband	Right Handed	Blue Cap	Crunchy Apples
Kareem Abdul-Jabbar	Alley Oop	Pig Tail Cape	Right Handed	Red Cap	Crunchy Apples
Porky Parker	Fast Break	Mud Goggles	Left Handed	Green Cap	Sweet Corn
Michael Jordan	Fast Break	Bacon Sweatband	Left Handed	Red Cap	Crunchy Apples
Sir Oinkalot	Sky Hook	Mud Goggles	Left Handed	Blue Cap	Crunchy Apples
LeBron James	Slam Dunk	Foam Hoof	Right Handed	Red Cap	Crunchy Apples
Giannis Antetokounmpo	Swish Three	Foam Hoof	Right Handed	Blue Cap	Sweet Corn
Hammy Duncan	Alley Oop	Foam Hoof	Right Handed	Blue Cap	Crunchy Apples
Shaquille O'Neal	Slam Dunk	Golden Whistle	Left Handed	Red Cap	Crunchy Apples
Trotter Swift	Alley Oop	Pig Tail Cape	Right Handed	Blue Cap	Acorn Chips
Wilt Chamberlain	Swish Three	Foam Hoof	Left Handed	Blue Cap	Sweet Corn
Magic Johnson	Fast Break	Mud Goggles	Left Handed	Red Cap	Crunchy Apples
Luka Doncic	Sky Hook	Pig Tail Cape	Right Handed	Red Cap	Crunchy Apples
Piggy Smalls	Sky Hook	Mud Goggles	Left Handed	Red Cap	Crunchy Apples
Snouty Pippen	Slam Dunk	Pig Tail Cape	Right Handed	Green Cap	Crunchy Apples
Bacon Bradley	Sky Hook	Mud Goggles	Left Handed	Red Cap	Sweet Corn
Swine Johnson	Fast Break	Golden Whistle	Left Handed	Green Cap	Sweet Corn

CLUE 1

Fractions of a number

Coach Barnaby counted the locker room jerseys and realized only a fraction of them had clues written on the tags.

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

T																	T
26	3	30	27	29	36	36	17	29	23	13	12	30	8	23	12	26	
															T		
28	30	17	7	17	25	12	36	13	30	23	28	3	29	8	26	36	30

$1/5 \text{ of } 130 = \square \rightarrow \text{ T }$

$1/6 \text{ of } 162 = \square \rightarrow \text{ V }$

$1/5 \text{ of } 125 = \square \rightarrow \text{ G }$

$6/8 \text{ of } 4 = \square \rightarrow \text{ H }$

$3/6 \text{ of } 56 = \square \rightarrow \text{ W }$

$1/4 \text{ of } 52 = \square \rightarrow \text{ D }$

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

$2/10 \text{ of } 35 = \square \rightarrow \text{ R }$

$2/6 \text{ of } 36 = \square \rightarrow \text{ O }$

$1/3 \text{ of } 24 = \square \rightarrow \text{ S }$

$1/6 \text{ of } 138 = \square \rightarrow \text{ N }$

$5/10 \text{ of } 34 = \square \rightarrow \text{ A }$

$1/2 \text{ of } 60 = \square \rightarrow \text{ E }$

$3/6 \text{ of } 58 = \square \rightarrow \text{ I }$

Scratch space:

CLUE 2

Order of operations

The arena scoreboard malfunctioned requiring a multistep order of operations to decrypt the hidden message.

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

W									W								
21	6	58	79	47	41	41	41	20	21	58	13	47	41	79	47	20	28

41	13	16	16	58	71	47	40	58	13	20	79	12	47	12	

$12 \times 3 - 15 = \square \rightarrow \boxed{\text{W}}$

$12 + 8 \times 2 = \square \rightarrow \boxed{\text{K}}$

$11 + 3 \times 3 = \square \rightarrow \boxed{\text{A}}$

$11 \times 3 - 17 = \square \rightarrow \boxed{\text{O}}$

$59 + 2 \times 6 = \square \rightarrow \boxed{\text{L}}$

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

$7 \times 5 - 23 = \square \rightarrow \boxed{\text{D}}$

$9 \times 3 - 14 = \square \rightarrow \boxed{\text{H}}$

$7 \times 7 - 2 = \square \rightarrow \boxed{\text{E}}$

$35 + 2 \times 3 = \square \rightarrow \boxed{\text{S}}$

$61 + 6 \times 3 = \square \rightarrow \boxed{\text{N}}$

$54 + 2 \times 2 = \square \rightarrow \boxed{\text{T}}$

$34 + 3 \times 2 = \square \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 3

Multiplication facts (1-12)

Detective Truffle checked the bleachers calculating total seats by multiplying equal rows of pig fans.

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

T																	
63	10	66	33	36	2	2	22	36	54	72	7	28	100	100	66	72	

					T													
66	33	66	7	35	63	10	36	54	99	81	28	7	22	100	100	2	66	45

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

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

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

$6 \times 11 = \square \rightarrow \text{E}$

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

$1 \times 2 = \square \rightarrow \text{L}$

$9 \times 4 = \square \rightarrow \text{I}$

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

$3 \times 11 = \square \rightarrow \text{V}$

$9 \times 6 = \square \rightarrow \text{N}$

$9 \times 5 = \square \rightarrow \text{S}$

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

$9 \times 9 = \square \rightarrow \text{F}$

$7 \times 4 = \square \rightarrow \text{O}$

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

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

Scratch space:

CLUE 4

The digital shot clock estimate rounded up to the nearest ten giving a clean hint on the monitor.

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

The diagram consists of two rows of boxes. Each box contains a number or the letter 'A'. The boxes are arranged in a sequence, with some boxes containing the letter 'A' and others containing numbers.

Row 1: 500, 900, 430, 9000, 200, 110, 1300, 430, 70, 2000, 30, 2300, 170, 5000, 1300, 230, 500, 4300.

Row 2: 3000, 500, 30, 300, 70, 370, 1300, 170, 2300, 230, 170, 5000, 430, 1300.

Round 523 to the nearest hundred $\rightarrow$ **A**

Round 4,277 to the nearest hundred → **P**

Round 9,382 to the nearest thousand $\rightarrow$

Round 174 to the nearest hundred → **G**

Round 301 to the nearest hundred $\rightarrow$ **L**

Round 66 to the nearest ten $\rightarrow$ **E**

Round 433 to the nearest ten → **R**

Round 1,571 to the nearest thousand → **D**

Round 2,260 to the nearest hundred $\rightarrow$ **N**

Round 168 to the nearest ten $\rightarrow$

Round 26 to the nearest ten → **S**

Round 367 to the nearest ten → **F**

Round 234 to the nearest ten → **C**

Round 5,459 to the nearest thousand →

Round 2,944 to the nearest thousand → **W**

Round 1,309 to the nearest hundred $\rightarrow$ **T**

Round 110 to the nearest ten → **H**

Round 902 to the nearest hundred $\rightarrow$ **B**

Scratch space:

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

To share the remaining basketballs equally among team drills the coach divided the total bin count.

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:

$24 \div 2 = \boxed{}$

$60 \div 6 = \boxed{}$

$40 \div 8 = \boxed{}$

$9 \div 3 = \boxed{}$

$60 \div 10 = \boxed{}$

$35 \div 5 = \boxed{}$

$8 \div 8 = \boxed{}$

$66 \div 6 = \boxed{}$

$36 \div 4 = \boxed{}$

$36 \div 9 = \boxed{}$

$64 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain threw down a slam dunk, then twirled a pig tail cape.
2. The villain ran a fast break, then wiped a bacon sweatband.
3. The villain threw down a slam dunk, then blew a golden whistle.
4. The villain ran a fast break, then blew a golden whistle.
5. The villain ran a fast break, then adjusted mud goggles.
6. The villain caught an alley oop, then adjusted mud goggles.
7. The villain pulled off a sky hook, then twirled a pig tail cape.
8. The villain threw down a slam dunk, then waved a foam hoof.
9. The villain caught an alley oop, then wiped a bacon sweatband.
10. The villain drained a swish three, then twirled a pig tail cape.
11. The villain drained a swish three, then blew a golden whistle.
12. The villain pulled off a sky hook, then adjusted mud goggles.

Answer Key

The Great Swine Slam Mystery

Culprit: Michael Jordan

Fast Break · Bacon Sweatband · Left Handed · Red Cap · Crunchy Apples

Trail: Start 21 → Clue 1 19 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT WEAR A GOLDEN WHISTLE"

$\frac{1}{5}$ of 130 = 26 (T) · $\frac{1}{6}$ of 162 = 27 (V) · $\frac{1}{5}$ of 125 = 25 (G) · $\frac{6}{8}$ of 4 = 3 (H) · $\frac{3}{6}$ of 56 = 28 (W) · $\frac{1}{4}$ of 52 = 13 (D) · $\frac{3}{6}$ of 72 = 36 (L) · $\frac{2}{10}$ of 35 = 7 (R) · $\frac{2}{6}$ of 36 = 12 (O) · $\frac{1}{3}$ of 24 = 8 (S) · $\frac{1}{6}$ of 138 = 23 (N) · $\frac{5}{10}$ of 34 = 17 (A) · $\frac{1}{2}$ of 60 = 30 (E) · $\frac{3}{6}$ of 58 = 29 (I)

Clue 2 (Order of operations): "WITNESS SAW THE SNEAK SHOOT LEFT HANDED"

$12 \times 3 - 15 = 21$ (W) · $12 + 8 \times 2 = 28$ (K) · $11 + 3 \times 3 = 20$ (A) · $11 \times 3 - 17 = 16$ (O) · $59 + 2 \times 6 = 71$ (L) · $4 \times 2 - 2 = 6$ (I) · $7 \times 5 - 23 = 12$ (D) · $9 \times 3 - 14 = 13$ (H) · $7 \times 7 - 2 = 47$ (E) · $35 + 2 \times 3 = 41$ (S) · $61 + 6 \times 3 = 79$ (N) · $54 + 2 \times 2 = 58$ (T) · $34 + 3 \times 2 = 40$ (F)

Clue 3 (Multiplication facts (1-12)): "THE VILLAIN DROPPED EVERYTHING FOR APPLES"

$7 \times 9 = 63$ (T) · $2 \times 11 = 22$ (A) · $10 \times 10 = 100$ (P) · $6 \times 11 = 66$ (E) · $7 \times 1 = 7$ (R) · $1 \times 2 = 2$ (L) · $9 \times 4 = 36$ (I) · $1 \times 10 = 10$ (H) · $3 \times 11 = 33$ (V) · $9 \times 6 = 54$ (N) · $9 \times 5 = 45$ (S) · $9 \times 11 = 99$ (G) · $9 \times 9 = 81$ (F) · $7 \times 4 = 28$ (O) · $7 \times 5 = 35$ (Y) · $12 \times 6 = 72$ (D)

Clue 4 (Rounding): "A BRIGHT RED SNOUT CAP WAS LEFT ON COURT"

Round 523 to the nearest hundred = 500 (A) · Round 4,277 to the nearest hundred = 4300 (P) · Round 9,382 to the nearest thousand = 9000 (I) · Round 174 to the nearest hundred = 200 (G) · Round 301 to the nearest hundred = 300 (L) · Round 66 to the nearest ten = 70 (E) · Round 433 to the nearest ten = 430 (R) · Round 1,571 to the nearest thousand = 2000 (D) · Round 2,260 to the nearest hundred = 2300 (N) · Round 168 to the nearest ten = 170 (O) · Round 26 to the nearest ten = 30 (S) · Round 367 to the nearest ten = 370 (F) · Round 234 to the nearest ten = 230 (C) · Round 5,459 to the nearest thousand = 5000 (U) · Round 2,944 to the nearest thousand = 3000 (W) · Round 1,309 to the nearest hundred = 1300 (T) · Round 110 to the nearest ten = 110 (H) · Round 902 to the nearest hundred = 900 (B)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Michael Jordan

$24 \div 2 = 12$ · $60 \div 6 = 10$ · $40 \div 8 = 5$ · $9 \div 3 = 3$ · $60 \div 10 = 6$ · $35 \div 5 = 7$ · $8 \div 8 = 1$ · $66 \div 6 = 11$ · $36 \div 4 = 9$ · $36 \div 9 = 4$ · $64 \div 8 = 8$