



The Big Game Championship Heist

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

Detective: _____ Date: _____

The golden championship trophy has vanished from the vault right before the big tournament! The Hoop Bandit slipped past court security and made off with the prize. It is up to you, Detective, to crack the basketball stats, run the plays, and catch the thief before the final buzzer!

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 Hoop Bandit 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	SUPER GEAR	SHOOTING HAND	HAIRSTYLE	DEFENSIVE PLAY
Kobe	Windmill Dunk	Glow Jerseys	Left Handed	High Ponytails	Double Teams
Zion	Windmill Dunk	Golden Whistles	Right Handed	Spiky Mohawks	Zone Defense
Booker	Windmill Dunk	Glow Jerseys	Left Handed	Curly Fades	Full Court Press
Joker	Crossover Dribble	Golden Whistles	Right Handed	High Ponytails	Full Court Press
Giannis	No-look Pass	Laser Goggles	Right Handed	Spiky Mohawks	Full Court Press
KD	No-look Pass	Golden Whistles	Left Handed	Curly Fades	Full Court Press
Luka	Ankle Breaker	Laser Goggles	Left Handed	High Ponytails	Zone Defense
Curry	Ankle Breaker	Sticky Socks	Left Handed	Spiky Mohawks	Full Court Press
Hal	Windmill Dunk	Laser Goggles	Left Handed	Spiky Mohawks	Full Court Press
Jordan	Windmill Dunk	Glow Jerseys	Left Handed	Spiky Mohawks	Zone Defense
Ja	Ankle Breaker	Glow Jerseys	Right Handed	Curly Fades	Full Court Press
Dame	Windmill Dunk	Spring Sneakers	Right Handed	High Ponytails	Double Teams
Spida	Ankle Breaker	Glow Jerseys	Left Handed	Spiky Mohawks	Full Court Press
LeBron	Windmill Dunk	Sticky Socks	Left Handed	Spiky Mohawks	Zone Defense
Shaq	Half-court Shot	Spring Sneakers	Left Handed	Curly Fades	Zone Defense
Slammin Sammy	Half-court Shot	Golden Whistles	Right Handed	Spiky Mohawks	Full Court Press
Muggsy	Half-court Shot	Sticky Socks	Left Handed	Curly Fades	Double Teams
Kyrie	No-look Pass	Spring Sneakers	Left Handed	Spiky Mohawks	Zone Defense
Buzzer Bobby	No-look Pass	Golden Whistles	Right Handed	Curly Fades	Full Court Press
Jimmy	No-look Pass	Laser Goggles	Left Handed	Spiky Mohawks	Full Court Press
Tatum	No-look Pass	Golden Whistles	Left Handed	Spiky Mohawks	Full Court Press

Multiplication facts (1-12)

The arena coach is stacking boxes of brand new basketballs. There are several equal rows of boxes on the equipment cart. We need to multiply the rows to count the balls and reveal our first lead.

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

70 20 48 63 121 7 40 30 70 40 24 48 35 7 24 70

28 48 121 55 32 24 10 40 48 7 28 20 30 35 70 10 48 35

$$7 \times 10 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$2 \times 5 = \boxed{} \rightarrow \boxed{\text{L}}$$

$4 \times 12 = \boxed{} \rightarrow \boxed{\text{E}}$

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

$4 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$9 \times 7 = \square \rightarrow \mathbf{B}$

$$5 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{R}}$$

$5 \times 8 = \square \rightarrow \boxed{\mathbf{D}}$

$$2 \times 12 = \boxed{} \rightarrow \boxed{0}$$

$5 \times 6 = \square \rightarrow \square$

$1 \times 7 = \square \rightarrow \boxed{\mathbf{N}}$

$$4 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$$2 \times 10 = \boxed{} \rightarrow \boxed{\text{H}}$$

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

Scratch space:

CLUE 2 Rounding

The digital scoreboard was damaged by the thief, making the numbers flicker. We have to round the broken score to the nearest ten to fix the screen and see the security camera footage.

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

T			T														
20	1300	110	20	1300	9000	110	170	500	5000	9000	7000	110	130	1300	50	5000	500
T		T						T									
20	900	20	1300	110	290	110	170	20	130	9000	500	110					

Round 22 to the nearest ten → **T**

Round 4,620 to the nearest thousand → **R**

Round 6,562 to the nearest thousand → **V**

Round 167 to the nearest ten → **F**

Round 8,916 to the nearest thousand → **I**

Round 286 to the nearest ten → **L**

Round 53 to the nearest ten → **A**

Round 127 to the nearest ten → **S**

Round 1,319 to the nearest hundred → **H**

Round 944 to the nearest hundred → **O**

Round 111 to the nearest ten → **E**

Round 475 to the nearest hundred → **D**

Scratch space:

CLUE 3 Addition

The concession stand worker needs to count the total drinks sold tonight. Let us add the sodas, sports drinks, and water bottles together to unlock the locker room door key.

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

T			T					T											T
4577	4725	7878	4577	4725	9028	7878	8589	4577	4875	9028	8257	6945	5444	8290	5444	9028	2149	6945	4577
												T							
5444	8589	7882	9777	9777	2445	6349	7882	4875	4577	8257	4875	7878	6945	6945					

$2845 + 1732 = \square \rightarrow \mathbf{T}$	$4117 + 3765 = \square \rightarrow \mathbf{U}$	$2046 + 2829 = \square \rightarrow \mathbf{R}$
$767 + 1382 = \square \rightarrow \mathbf{N}$	$4036 + 5741 = \square \rightarrow \mathbf{L}$	$3062 + 5527 = \square \rightarrow \mathbf{F}$
$3373 + 3572 = \square \rightarrow \mathbf{S}$	$741 + 1704 = \square \rightarrow \mathbf{C}$	$4221 + 4069 = \square \rightarrow \mathbf{G}$
$1749 + 2976 = \square \rightarrow \mathbf{H}$	$2837 + 5420 = \square \rightarrow \mathbf{P}$	$3810 + 4068 = \square \rightarrow \mathbf{E}$
$2750 + 3599 = \square \rightarrow \mathbf{O}$	$4049 + 4979 = \square \rightarrow \mathbf{I}$	$3423 + 2021 = \square \rightarrow \mathbf{A}$

Scratch space:

CLUE 4 Subtraction

The referee has a pile of jerseys, but some are missing from the rack. By subtracting the current jerseys from the original total, we can find out how many the thief stole.

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

W																W	
6004	5772	2887	2617	4448	2251	6673	3394	5134	1419	7809	7427	6557	2617	5263	5918	6004	7809

5263	5918	1419	6079	2617	2251	4527	5263	5772	6079	1419	6557

$6741 - 737 = \square \rightarrow \text{W}$

$5315 - 788 = \square \rightarrow \text{T}$

$5844 - 3593 = \square \rightarrow \text{N}$

$5516 - 2899 = \square \rightarrow \text{O}$

$8980 - 2423 = \square \rightarrow \text{M}$

$5781 - 1333 = \square \rightarrow \text{U}$

$6030 - 896 = \square \rightarrow \text{P}$

$8144 - 2372 = \square \rightarrow \text{E}$

$8524 - 3261 = \square \rightarrow \text{H}$

$2378 - 959 = \square \rightarrow \text{I}$

$11593 - 3784 = \square \rightarrow \text{K}$

$9362 - 3444 = \square \rightarrow \text{A}$

$9734 - 3655 = \square \rightarrow \text{R}$

$8662 - 1989 = \square \rightarrow \text{D}$

$8256 - 4862 = \square \rightarrow \text{S}$

$4494 - 1607 = \square \rightarrow \text{F}$

$11730 - 4303 = \square \rightarrow \text{Y}$

Scratch space:

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

The junior team wants to split the practice balls equally among all the players on the court. If we divide the balls up fairly, the coach will share a secret witness report.

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:

$120 \div 12 = \boxed{}$

$88 \div 11 = \boxed{}$

$18 \div 9 = \boxed{}$

$30 \div 6 = \boxed{}$

$90 \div 10 = \boxed{}$

$72 \div 12 = \boxed{}$

$2 \div 2 = \boxed{}$

$77 \div 11 = \boxed{}$

$33 \div 11 = \boxed{}$

$20 \div 5 = \boxed{}$

$132 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain unleashes a swift crossover dribble, then fades into the dark in glow jerseys.
2. The villain performs an epic windmill dunk, then spots the exit path using laser goggles.
3. The villain unleashes a swift crossover dribble, then blasts a distraction on golden whistles.
4. The villain sinks a wild half-court shot, then bounces away in spring sneakers.
5. The villain unleashes a swift crossover dribble, then grips the hardwood in sticky socks.
6. The villain unleashes a swift crossover dribble, then spots the exit path using laser goggles.
7. The villain executes a flawless no-look pass, then fades into the dark in glow jerseys.
8. The villain does an incredible ankle breaker, then grips the hardwood in sticky socks.
9. The villain executes a flawless no-look pass, then blasts a distraction on golden whistles.
10. The villain does an incredible ankle breaker, then fades into the dark in glow jerseys.
11. The villain does an incredible ankle breaker, then bounces away in spring sneakers.
12. The villain executes a flawless no-look pass, then spots the exit path using laser goggles.

Answer Key

The Big Game Championship Heist

Culprit: Jimmy

No-look Pass · Laser Goggles · Left Handed · Spiky Mohawks · Full Court Press

Trail: Start 21 → Clue 1 15 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE BANDIT DOES NOT WEAR GOLDEN WHISTLES"

$7 \times 10 = 70$ (T) · $2 \times 5 = 10$ (L) · $4 \times 12 = 48$ (E) · $5 \times 7 = 35$ (S) · $4 \times 8 = 32$ (G) · $9 \times 7 = 63$ (B) · $5 \times 11 = 55$ (R) · $5 \times 8 = 40$ (D) · $2 \times 12 = 24$ (O) · $5 \times 6 = 30$ (I) · $1 \times 7 = 7$ (N) · $4 \times 7 = 28$ (W) · $2 \times 10 = 20$ (H) · $11 \times 11 = 121$ (A)

Clue 2 (Rounding): "THE THIEF DRIVES HARD TO THE LEFT SIDE"

Round 22 to the nearest ten = 20 (T) · Round 4,620 to the nearest thousand = 5000 (R) · Round 6,562 to the nearest thousand = 7000 (V) · Round 167 to the nearest ten = 170 (F) · Round 8,916 to the nearest thousand = 9000 (I) · Round 286 to the nearest ten = 290 (L) · Round 53 to the nearest ten = 50 (A) · Round 127 to the nearest ten = 130 (S) · Round 1,319 to the nearest hundred = 1300 (H) · Round 944 to the nearest hundred = 900 (O) · Round 111 to the nearest ten = 110 (E) · Round 475 to the nearest hundred = 500 (D)

Clue 3 (Addition): "THE THIEF TRIPS AGAINST A FULL COURT PRESS"

$2845 + 1732 = 4577$ (T) · $4117 + 3765 = 7882$ (U) · $2046 + 2829 = 4875$ (R) · $767 + 1382 = 2149$ (N) · $4036 + 5741 = 9777$ (L) · $3062 + 5527 = 8589$ (F) · $3373 + 3572 = 6945$ (S) · $741 + 1704 = 2445$ (C) · $4221 + 4069 = 8290$ (G) · $1749 + 2976 = 4725$ (H) · $2837 + 5420 = 8257$ (P) · $3810 + 4068 = 7878$ (E) · $2750 + 3599 = 6349$ (O) · $4049 + 4979 = 9028$ (I) · $3423 + 2021 = 5444$ (A)

Clue 4 (Subtraction): "WE FOUND SPIKY MOHAWK HAIR ON THE RIM"

$6741 - 737 = 6004$ (W) · $5315 - 788 = 4527$ (T) · $5844 - 3593 = 2251$ (N) · $5516 - 2899 = 2617$ (O) · $8980 - 2423 = 6557$ (M) · $5781 - 1333 = 4448$ (U) · $6030 - 896 = 5134$ (P) · $8144 - 2372 = 5772$ (E) · $8524 - 3261 = 5263$ (H) · $2378 - 959 = 1419$ (I) · $11593 - 3784 = 7809$ (K) · $9362 - 3444 = 5918$ (A) · $9734 - 3655 = 6079$ (R) · $8662 - 1989 = 6673$ (D) · $8256 - 4862 = 3394$ (S) · $4494 - 1607 = 2887$ (F) · $11730 - 4303 = 7427$ (Y)

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

$120 \div 12 = 10$ · $88 \div 11 = 8$ · $18 \div 9 = 2$ · $30 \div 6 = 5$ · $90 \div 10 = 9$ · $72 \div 12 = 6$ · $2 \div 2 = 1$ · $77 \div 11 = 7$ · $33 \div 11 = 3$ · $20 \div 5 = 4$ · $132 \div 12 = 11$