Whodunnit?

Name:_____

Six contestants on a reality TV show were stunned to find their lowest scoring colleague was "injured." They must figure out the crime before the bell rings. The question is *Whodunnit*? And how... The Player, Last Known Whereabouts and Method that are left unaccounted for -- is the solution.

1.

2.

3.

4.

5.

6.

7.	8.

9.	10.

Who is the "Criminal"?

(The three boxes left unchecked will reveal the crime. If you cannot figure it out, you may be next.)

The Players		The Last Known Whereabouts		The Method	
Dr. Alpha		Atrium		Chemical Poisoning	
Miss Beta		Gym		Cougar Attack	
Mrs. Gamma		Kitchen		Electrocution	
Professor Delta		Library		Fallen Object	
Mr. Epsilon		Movie Theater		Stubbed Toe	
Coach Omega		Pool		Venomous Bite	

Clue #1

WHODUNNIT?

$$\sqrt{80n}$$

$2\sqrt{20n}$	Professor Delta was checking email in the library.
$2n\sqrt{5}$	The injury was not done by chemical poisoning.
$4\sqrt{5n}$	The victim did not have a venomous bite.
$4n\sqrt{5}$	Mrs. Gamma was eating a snack in the kitchen.

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Clue #2

$$\sqrt{18x^2}$$

$3x\sqrt{2}$	The victim was not mauled by a cougar.
$x\sqrt{18}$	The injury was not done with a fallen object.
$3x\sqrt{6}$	Dr. Alpha was swimming laps in the pool.
$2x\sqrt{9}$	Mrs. Gamma was lounging in the atrium.

Clue #3

$$\sqrt{108a^3b^4}$$

$ab^2\sqrt{18a}$	The victim did not have a venomous bite.
$6ab^2\sqrt{3a}$	Coach Omega was lounging around the pool.
$6ab\sqrt{3ab}$	Mrs. Gamma was listening to music in the atrium.
$ab^2\sqrt{3a}$	The injury was not done with a fallen object.

Clue #4

$$\sqrt{175m^2n^9p}$$

$mn^4\sqrt{175np}$	The victim was not mauled by a cougar.
$5m^2n^3\sqrt{7np}$	The victim was not electrocuted.
$5mn^4\sqrt{7np}$	Professor Delta was using an iPad in the atrium.
$mn^4\sqrt{35np}$	Mr. Epsilon was eating a snack in the kitchen.

Clue #5

$$-4\sqrt{192x^2y}$$

$-32xy\sqrt{3xy}$	Miss Beta was relaxing by the pool.
$-32\sqrt{3xy}$	Dr. Alpha was making a sandwich in the kitchen.
$-8x\sqrt{21y}$	The injury was not a stubbed toe.
$-32x\sqrt{3y}$	The injury was not done with a fallen object.

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Clue #6

$$5\sqrt{216x^2y^7}$$

$30xy^3\sqrt{6y}$	Miss Beta was watching a movie in the theater.
$5xy^3\sqrt{216y^2}$	The victim did not have a venomous bite.
$11xy^3\sqrt{6y}$	The injury was not done by chemical poisoning.
$30y^3\sqrt{6xy}$	Dr. Alpha was playing basketball in the gym.

Clue #7

$$\sqrt[3]{64q^4}$$

$q\sqrt[3]{64q}$	The victim was not electrocuted.
$4q\sqrt[3]{q}$	The injury was not done by chemical poisoning.
$2q\sqrt[3]{q^2}$	Coach Omega was watching a film in the movie theater.
$2\sqrt[3]{q}$	Professor Delta was reading email in the library.

Clue #8

$$\sqrt[3]{875a^6b^2}$$

$a^2\sqrt[3]{875b^2}$	Mrs. Gamma was doing Pilates in the gym.
$a\sqrt[3]{7b^2}$	The victim did not have a venomous bite.
$25a^2\sqrt[3]{7b^2}$	The injury was not carried out with a fallen object.
$5a^2\sqrt[3]{7b^2}$	Mr. Epsilon was researching in the library.

Clue #9

WHODUNNIT?

$$-2\sqrt{512x^{13}y^{11}z^{12}}$$

$-32x^6y^5z^5\sqrt{2xy}$	Dr. Alpha was making a snack in the kitchen.
$-16x^7y^5z^6\sqrt{9xy}$	Mrs. Gamma was exercising in the gym.
$-32x^6y^5z^6\sqrt{2xy}$	The victim was not electrocuted.
$-16x^6y^5z^5\sqrt{8xyz}$	The injury was not a stubbed toe.

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Clue #10

$$5xy^3z^4\sqrt{384x^{20}yz^9}$$

$5x^{10}y^3z^8\sqrt{384yz}$	The victim was not electrocuted.
$10x^{11}y^3z^7\sqrt{96yz}$	Mrs. Gamma was cleaning dishes in the kitchen sink.
$40x^{11}y^3z^8\sqrt{6yz}$	Dr. Alpha was mopping the gym floor.
$20x^{11}y^3z^8\sqrt{6yz}$	The injury was not a stubbed toe.