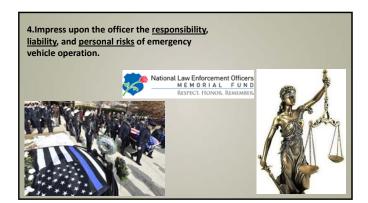




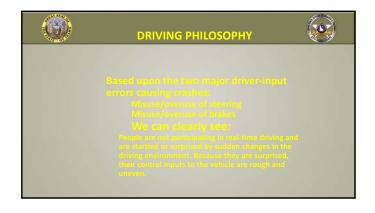


3. Increase your efficiency as a driver, thereby increasing your efficiency as an Officer.



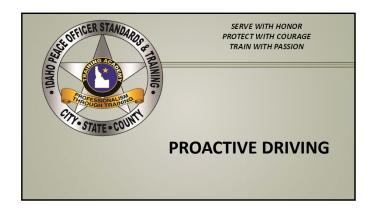


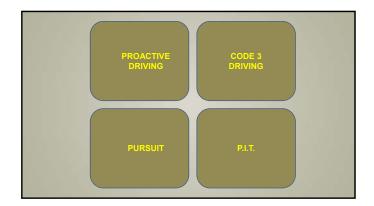
WE TEACH 100%
CONTROL OF THE
VEHICLE 100% OF THE
TIME







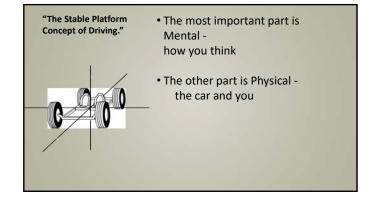




# 2016 LVMPD PREVENTABLE ACCIDENTS Collision Type: 309 Total Backed Into 28% (88) Rear End 13% (41) Citations Issued for: Driver Inattention 29% (90) Improper Backing 15% (46)

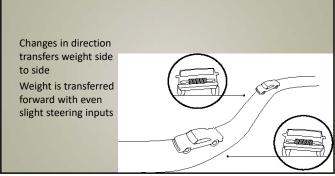
## 2015/2016/2017/2018 ACSO PREVENTABLE ACCIDENTS

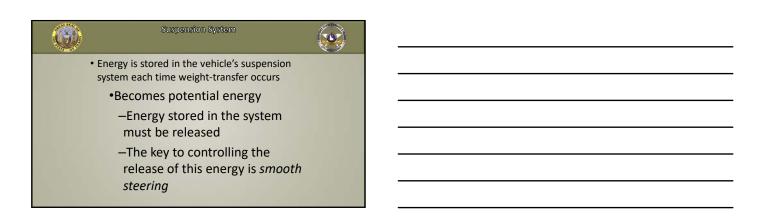
## Chevy Tahoe Police Package New Features Include: Traction / Stability Control 2 & 4 wheel drive Back-Up Sensors Back-Up Camera Weight 5000+



Step back and view the vehicle as a platform supported by four tires.  A stable platform means you'll have more control and less risk.	
When the car is at rest, the car's weight is evenly distributed and it is most stable. This is also true of a car moving at a constant speed in a straight line.	
Letting off the gas or applying the brakes moves weight to the front of the vehicle.	

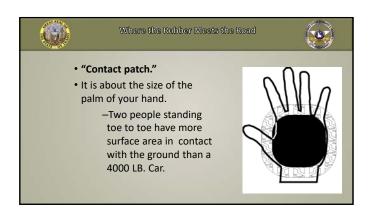
Releasing the brakes or applying the gas moves weight to the rear of the vehicle.



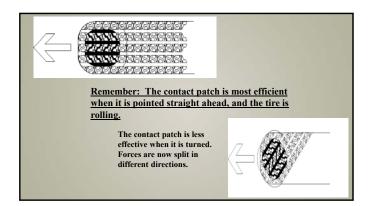


(1)	Suspension System	
	Works to balance forces during a change in direction or speed	
	<ul><li>Helps to make weight transfer smoother</li></ul>	
	<ul> <li>Helps to keep the vehicle level and the tires in contact with the ground</li> </ul>	

## Can only be accomplished by: -Smooth, steady acceleration and deceleration -Slowing down and making smooth steering inputs



- At rest, you have four contact patches about the size of a man's hand.
- Because of certain dynamics of a tire in motion, this contact patch gets smaller, at higher speeds.
- It can become as small as your thumb.





### 1) Approach Vehicle

- Vehicle attitude
- Sagging springs
  - »Vehicle suspension system is very important for safe and effective patrol car operation
  - »Body damage
  - »Leaks, puddles, etc..

### 2) Circle and Look

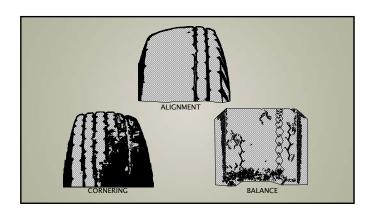
- •Head, tail, brake, back-up, and emergency lights
- Tires
  - -Cracked or bent rims, loose lug nuts
  - -Windshield wipers

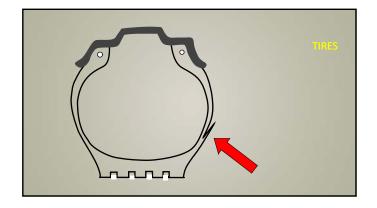


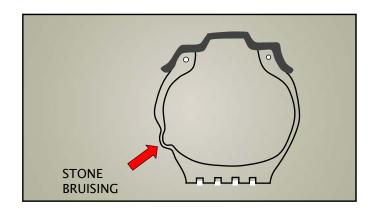
	_













### **Proper Inflation**

- ☆ +/- 1 or 2 lbs.. of Recommended PSI
- ① Check when tires are cold
- (2) Maximum handling and tire life
- (b) Will lose 1 LB per month



### 3) Under Hood

Fluid levels, Belts and Hoses, Loose wires/parts

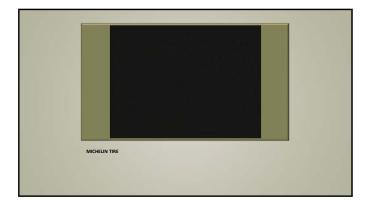


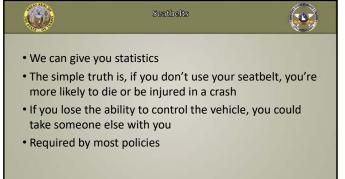
### 4) THE INTERIOR

- Check all equipment including control switches, gauges, indicator lights, mirrors, safety equipment, etc.
- Cleanliness
  - Loose objects become missiles during emergency maneuvers or an accident

### 5) Vehicle in motion check

- Steering
  - -Play in wheel, wanders, vibration, jerky
- Brakes
- -Grab, adequate pedal, pull, spongy, squealing, metal against metal
- Suspension
  - -Too bouncy, unstable, unusual noises, vibration
- Acceleration
  - -Rough, uneven, hesitates, cuts out.





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• All employees shall wear properly adjusted safety restraints when operating or riding in a seat equipped with restraints, in any vehicle owned, leased, rented, or operated by this office, while on or off duty, or in any privately owned vehicle while on duty. The employee driving such a vehicle shall ensure that all other occupants, including those who are not employees of the ACSO, are also properly restrained (I.C. § 49-673). It is the policy of the ACSO that employees use safety and child restraint systems to reduce the possibility of death or injury in a motor vehicle collision. Exceptions to the requirement to wear safety restraints may be made only in exceptional situations where, due to unusual circumstances, wearing a seat belt would endanger the ACSO employee or the public. Employees must be prepared to justify any deviation from this requirement.

### **DEFEATING THE SYSTEM**

Officers have found various ways to defeat the chime on the seatbelt system. Whether it is done by using the seatbelt extender, or any other way to defeat the chime, it can end up being a deadly mistake.



AIRBAGS



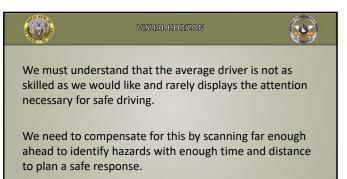
- The airbag system uses a "black box" which compiles various information to determine how, when, and if to deploy the airbag.
- One of the factors that affects this process is whether or not the seatbelt is being used.

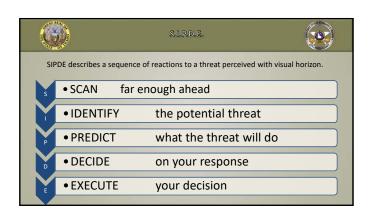
Scenario 1	
If the driver has defeated the seatbelt chime and is not wearing the seatbelt when a less than serious collision occurs, the "black box", thinking that you are belted in, may determine that	
the airbag is not needed and that the seatbelt is enough to	
keep you safe.	
Scenario 2	
In a serious collision the airbag will deploy, but with the driver	
unbelted they will be out of position and possibly ejected.	
Death is the likely outcome.	

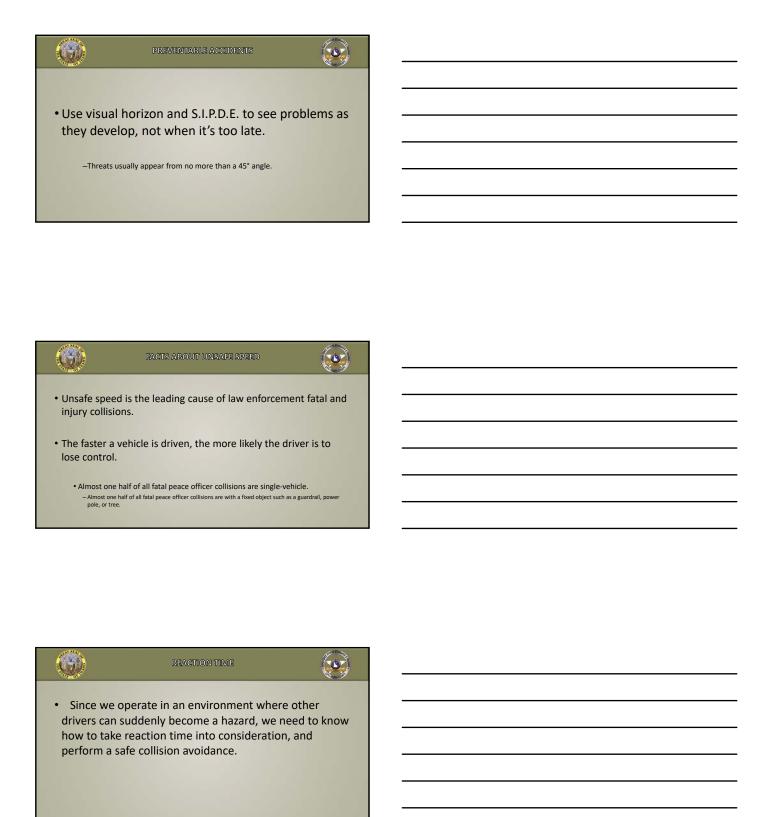
vidman.ca@

"It's safer to be thrown clear of the crash. . ." ????????











### REACTION TIME



 Since we operate in an environment where other drivers can suddenly become a hazard, we need to know how to take reaction time into consideration, and perform a safe collision avoidance.



### REACTION TIME



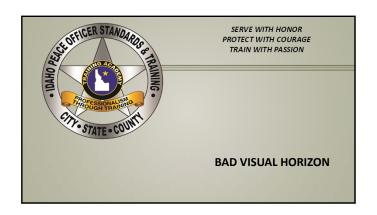
The average reaction time is 1½ seconds.

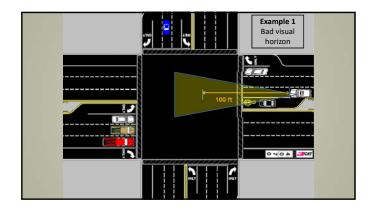
At 45mph a vehicle will travel approximately 100 feet in that time.

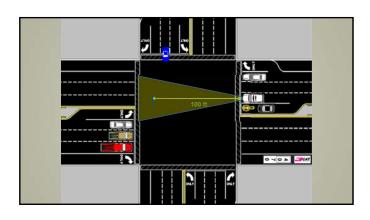
With poor visual horizon the accident will be over before the brakes are applied.

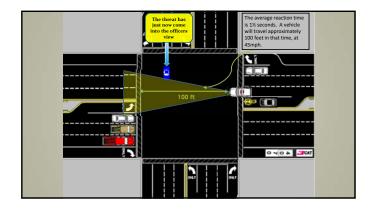
We will be using an intersection as our example since these locations are where most accidents occur.

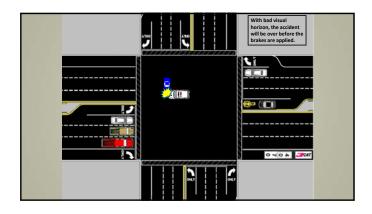


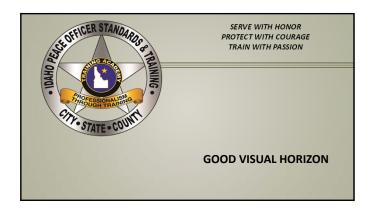


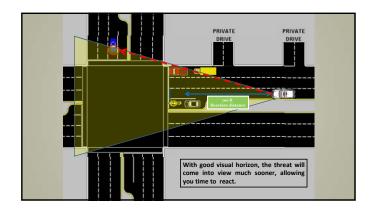


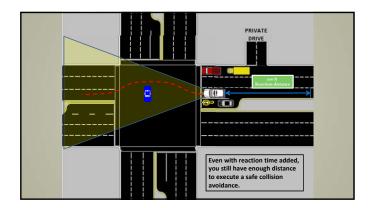






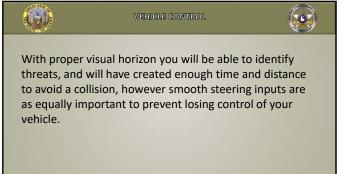
















## • 3 and 9 O' Clock -Positioned for both shuffle and evasive steering -Clears hands from airbag -Balances driver • Fingertip and Thumb grip



**BK1** Let's get a pic of an ACSO Deputy doing this please Brent Klimke, 11/9/2018

### SHUFFLE STEERING



To make a left turn, simply move the left hand to the 12 o'clock and begin pulling the steering towards the 6 o'clock. As your left hand passes through the 9 o'clock position, the right hand will mirror until the hands physically touch at 6. If more steering is needed, the right hand continues the movement.

### SHUFFLE STEERING



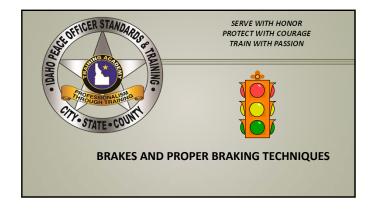
To make a right turn, simply move the right hand to the 12 o'clock and begin pulling the steering towards the 6 o'clock. As your right hand passes through the 3 o'clock position, the left hand will mirror until the hands physically touch at 6. If more steering is needed, the left hand continues the movement.

## 

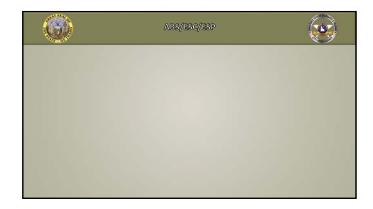
### EVASIVE STEERING

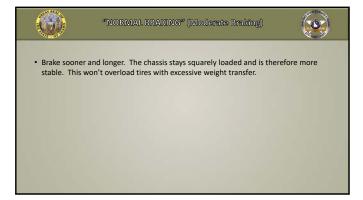


- Steering inputs made from the 3 O'clock and 9 o'clock positions when the driver is surprised by a change in the driving environment.
- Even if the driver is surprised, the smoother the inputs to the vehicle, the more control the operator has.



## -Anti-lock systems are designed as an emergency aid for the driver. -They allow the tires to continue to turn rather than lock and slide, giving the driver the ability to maintain directional control. -Anti-lock systems are extremely useful when used correctly but become dangerous when improperly utilized. -They are designed to help drivers avoid potentially dangerous driving encounters, not to help drivers go around corners faster.



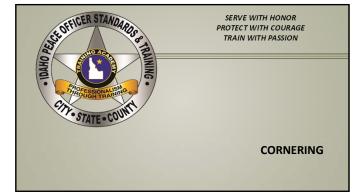




### Emergency Stopping



- The safest and most efficient method is:
- THRESHOLD BRAKING
- Maximum, steady pressure applied to the brake pedal, just short of lockup or the point at which ABS would engage to counter wheel lock-up.
- Manual technique to be used in the absence of ABS.

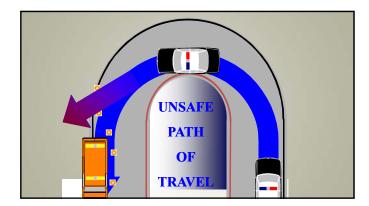




### Racing Technique



- This is the fastest way through a turn.
- The vehicle position is outside, inside, outside
- Enter the corner on the outside and drive through the corner to an outside exit.
  - -Used to try and maintain speed through a corner.
  - -Only practical/necessary on a race-track.
- Problem is there are very few (if any) options at the exit...



## (1)

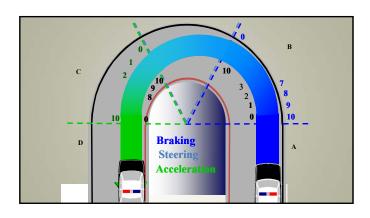
### Pro-Active Driving Line

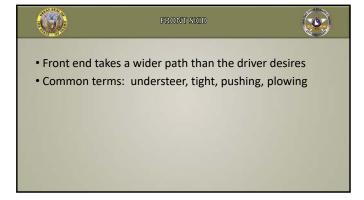


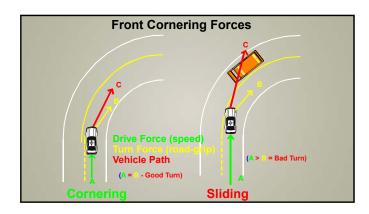
- Enter the turn on the outside useable portion of the roadway. Look for good grip surfaces.
- Steer the widest radius possible to an inside (straight line) exit –(Outside, Outside, Inside)
- This technique allows you to exit corners in a straight line and on a stable platform.

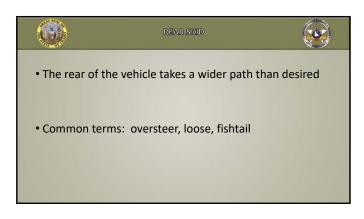


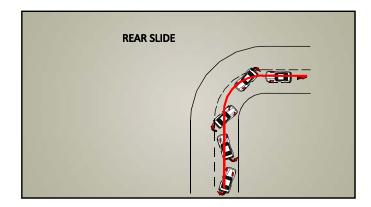
<b>©</b>	Trail Braking	
maintain rolling fri	he braking effect on the fro	











In any skid or slide...

 $\ensuremath{^{\prime\prime}}$  If the tires squeal... straighten the wheel."

then transfer weight with the vehicle controls



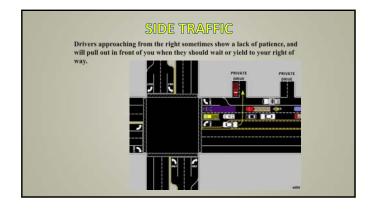
	Four rules of Backing	
Never back ui	nless you have to	
• If you must be	ack, do it slowly	
• Back as if you	expect to hit something	
Keep looking	back until you have stopped	

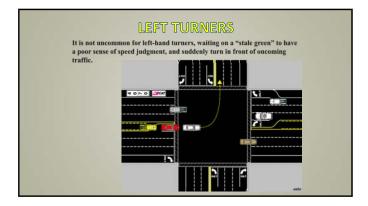
## INTERSECTIONS ACCOUNT FOR APPROXIMATELY 80% OF ALL COLLISIONS.

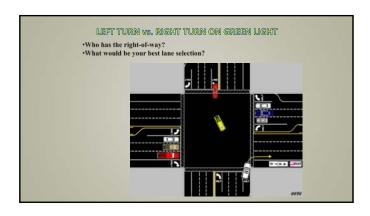
- This includes the inner intersection and the several hundred feet before and after the intersection.
  - This is where most vehicular direction changes occur as well as pedestrian crossings.
    - A good time to limit your distractions and scan your surroundings for threats.

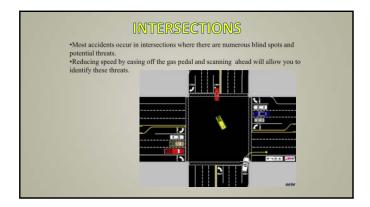
### **COMMON THREATS**

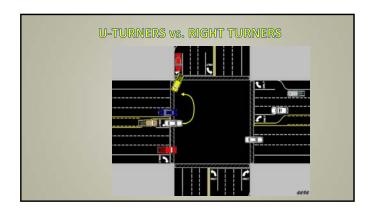
- 1. SIDE TRAFFIC/PRIVATE DRIVES
- 2. LEFT-TURNERS
- 3. PEDESTRIANS
- 4. LARGE VEHICLES
- 5. BUS STOPS
- 6. CENTER TURN LANES

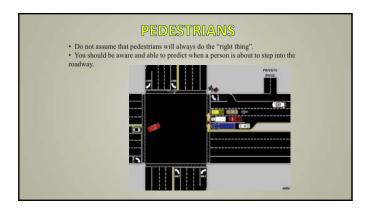


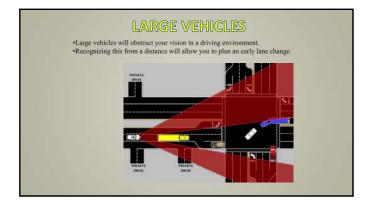


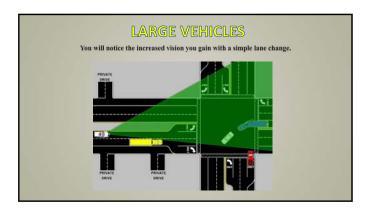


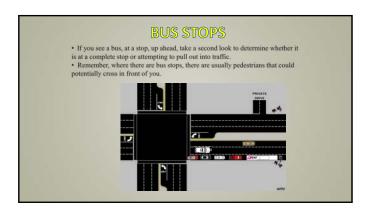






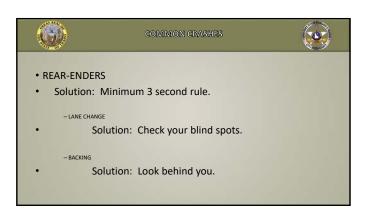


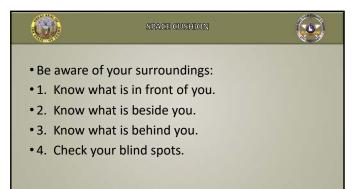


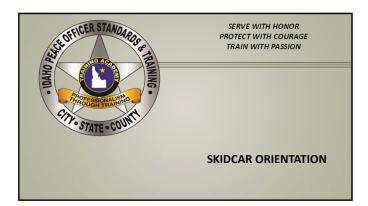


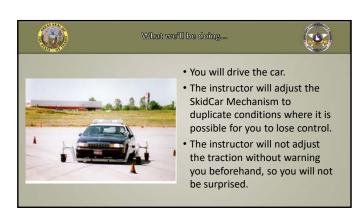


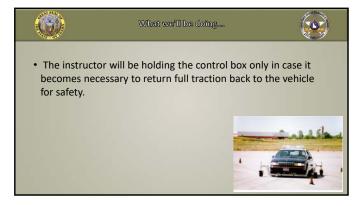
Remember, good visual horizon will create enough time and distance, for you to plan a safe collision avoidance.

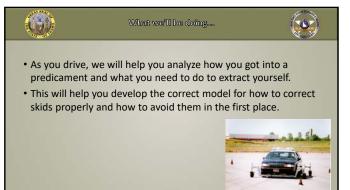


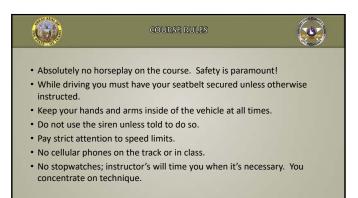














### COURSE RULES



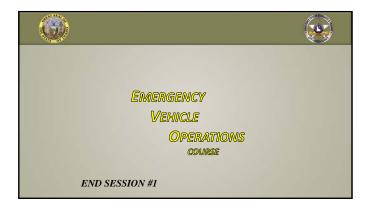
- Use caution at all times. Do not make an unsafe move, even if you have been instructed to begin an exercise.
- If you do not understand something, ask an instructor.
- Never anticipate a command.
- Treat all vehicles as if you life depends upon them...it does.
- Confine bathroom activities to the porta-potty.
- 2-way radios are for instruction purposes only.



### Cones



- In order to help you improve your driving technique as quickly as possible:
- -Each cone you knock over costs you 10 push-ups.
- —If you knock-over Rocky or Bullwinkle it costs you 50 push-ups.
  - On day 3 and 4, each cone goes up to 15 push-ups
  - Rocky and Bullwinkle cost 75 push-ups
- -If you miss an entry, apex or exit gate it costs 10 or 15 push-ups per cone = 20/30 per gate.



1	n