

# METROLOGY

## IN THE WORLD OF SPORT

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**Man, motor racing is really the pits.**

Do you think they're on the right track?

Monitoring the temperature of the engine is an important means of ensuring performance and reliability.

Projectiles must be manufactured to the same shape and mass specifications. Differences in shape or mass will influence the flight path through the air.

Shells must be manufactured to the correct specifications. If the shell is too big or too long, it will not fit into the chamber of the rifle. If it is too small or too short, it will not form an effective seal and some gas will escape. This will result in a pressure loss.

When fuel is loaded, determining the correct volume is critical as this affects the speed and performance of the car.

The weight of a Formula 1 car for example may not be less than 600kg including the driver.

Time measurements are used in the qualifying sessions to determine the position in which the driver starts.

I should've brought a magazine.

French Mole

These guys must be lost. They keep going round in circles.

An accurate rifle shoots to the same point on a continued basis. The point of impact stays the same at a given distance.

I think it's called target marketing.

The weighing of the horses is performed using what is known as the Internationally recognised "weight for age" scale.

Track distances are measured using a measuring wheel and distances are either 1600m or the mile.

Critical measurements that influence the game of cricket include the width and weight of bats, diameter and weight of balls, and height and width of all 3 stumps.

I'm totally stumped by all this.

The fastest ball in test cricket was registered at 161 km/h in New Zealand in 2002.

There are various methods used for routine screening for "classes of drugs", as well as weighing urine samples for analysis.

Apparently the horse that comes first always wins.

Chinese Mole

Stop this horsing around.

The grass is always greener on the other side.

Padding', 'Spin' 'Overs', 'Getting caught out'... Sounds like a political party.

Timing is automatic. When the starter presses the button to open the gates it activates the timing byradio signal, which stops when the first horse breaks the electronic beam at the finish.

The average dimensions for a first class cricket ground are 182m long and 150m wide, with a minimum of 68,56m of ground in any direction from the pitch.

The dimensions of a cricket pitch are:  
- Length: 20.12m  
- Width: 2.64m  
- Popping crease: 1.22m

Jockeys are weighed before and after a race. The digital scales used are calibrated and cannot be manipulated.

I love these customised sand pits.

Dimensions of a soccer field:  
- The Field should be rectangular.  
- Width: Between 59,44m and 73,15m  
- Length: Between 100,58m and 109,72m  
Mutual consensus must be reached between two competing parties for dimension less than the minimum.

Visibility of the pitch is an important factor for a soccer match during the night. However, it is up to the referee committee to decide if the pitch is visible enough at all angles for play.

Time is important in golf as 18 holes should be completed in 5 hours and therefore T-offs are scheduled at regular intervals of 7 minutes off a shot-gun start, from both the 1st and 10th tees.

This is driving me mad.

Egyptian Mole

I feel like I belong at Sea World.

A mercury thermometer is used to ensure temperatures do not become dangerously hot. This is done by course officials and thermometers are usually not calibrated.

Its called a Driving Range - but you don't need a licence.

American Indian Mole

The distance to the pin is measured with special binoculars, relating the height of the pin to the distance.

That should improve their chances of a hole in one.

Statistical prediction of lightning danger is accomplished by a sensor system, stopping play due to heavy weather.

The dimensions of a soccer ball are as follows:  
- Weight: Between 450g and 410g  
- Circumference: Between 70cm and 68cm  
Standardising the dimensions of the ball is important in that the speed, distance, spin and control of the ball are affected.

These guys are on the ball.

A stop watch is used by the referee during the match. The exact time of play for soccer is 90 minutes, excluding the referee's optional time due to injuries and other stoppages.

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