

Maths in Motion Sports Quiz

ROUND 5

QUESTION 1

Running

Q. A runner runs for **36 minutes**, takes a quick break, then runs for another **15 minutes**. How many minutes did they run for altogether?

A. 51

QUESTION 2

Swimming

Q. An Olympic-sized swimming pool is **50m long**. How many lengths will a competitor in a **400m** race have to swim?

A. 8

QUESTION 3

Tennis

Q. The longest professional tennis match of all time lasted **665 minutes**. How many *hours* is that?

A. The answer is 11 hours (plus 5 minutes, but the question just asked how many hours).

Bonus fact: *The match took place at Wimbledon in 2010 between the American John Isner and Frenchman Nicholas Mahut. Isner eventually won – but both ended up in the record books!*

QUESTION 4

Javelin

Q. In a javelin competition, the winner's best throw is **62.30m**, and their rival's is **59.12m**. What is the difference between these distances in centimetres?

A. 318cm

QUESTION 5

Cycling

Q. Scotsman John Boyd Dunlop invented the first air-filled bike tyre in **1887**. How many years was it from then until cyclist Chris Hoy won his first Olympic gold in **2004**?

A. 117 years.

***Bonus fact:** Chris Hoy – now SIR Chris Hoy – went on to win a total of seven Olympic medals, including six golds. He’s also an 11-time world champion.*

QUESTION 6

Wheelchair rugby

Q. Wheelchair rugby takes place on a court **28m long**, and **15m wide**. What is the area of this court?

A. 420m^2

QUESTION 7

Curling

Q. In curling, teams try to get all their stones as close as possible to the centre of a target on the ice known as the “house”. The house is a circular area with a radius of **1829mm**. What is its diameter – in centimetres?

A. 365.8cm

QUESTION 8

Diving

Q. In a diving competition, the diver’s score is calculated by multiplying the ‘degree of difficulty’ of the dive, with a mark out of 30 from the judges for how well it’s done. If a dive has a degree of difficulty of **3.1** and the judges award it **24 marks**, what will the diver’s overall score be?

A. 74.4

Bonus info about how diving is scored:

In diving competitions there may be 3, 5 or 7 judges. Each of these judges decides on a score out of 10 for the dive – but only the middle three of these scores are used. So, where there are 5 or 7 judges the highest and lowest 1 or 2 scores are discarded to leave the middle 3 scores.

The ‘Degree of Difficulty’ of the dive takes into account the directions of take-off and rotation, the flight position, the number of somersaults and/or twists and whether the diver is able to see the water when about to enter it. The values range from 1.2 to 4.8.

The dive in the question has a ‘degree of difficulty’ of 3.1. An example of this would be a “forward 3½ Somersaults dive in pike position” from a 3m springboard!

QUESTION 9

Football

Q. A football match starts at **8pm**. After **90 minutes** of play and a half time break of **15 minutes**, what time is it?

A. 9.45pm

QUESTION 10

Rugby

Q. Murrayfield in Edinburgh is the official home of Scottish Rugby Union, and it's the largest stadium in Scotland. It can hold a crowd of **67,144**. Round this figure to the nearest **100**.

A. 67,100