

Maths – Length, Distance and Time



Olympic Games

The **Olympic Games** is an international multi-sport event celebrated as a global sports festival by people all over the world. The Olympic Games are held in both the summer and winter. The five rings — the well-known symbol of the Olympic Games — were created to express the solidarity of the world's five continents.



This is the start of the 100 metres in 1896. In that year Thomas Burke from the USA won the race in 12 seconds.

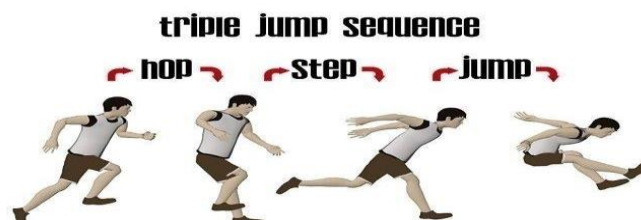
How far can you run in 12 seconds? With a friend or family member, use a stop watch and measure how far you ran.

This is the finish of the 200 metres in 1924. Jackson Scholz from USA won that race in just over 21 seconds.

How many seconds does it take you to run 100 metres? Or count how many times you can run around your garden in 22 seconds.



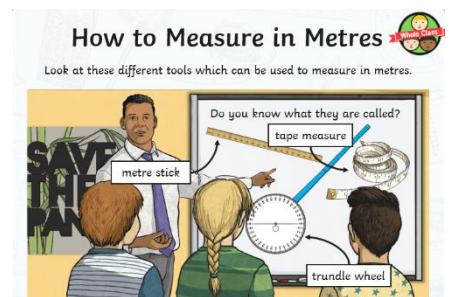
This is the triple jump, which is a hop, step and jump. In 1906 it was Peter O'Connor from Ireland who won a silver medal. He jumped about 15 metres.



Measure the distance of your best hop, skip and jump.

Measure your distance using non-standard or standard instruments.

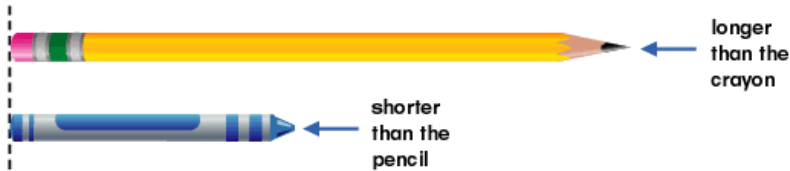
You can use non-standard measure by counting leg strides or number of running paces. Or mark your distance and compare with someone. You can measure in metres using a metre stick or tape measure.



Hedgehog Class

Comparing Length

To compare the length of two or more objects you need to line them up next to each other with one end at the same starting position e.g.

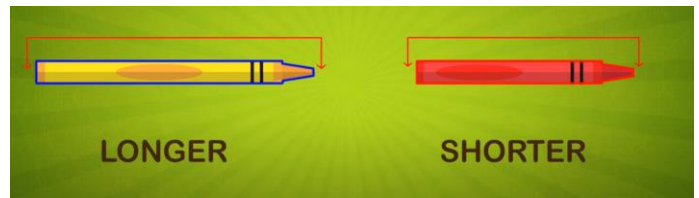


Compare the length of two objects using the language '**longer**' and '**shorter**'.



"The jacket is **longer** than the shirt"

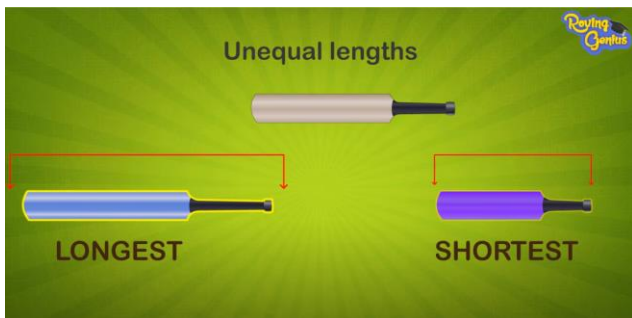
"The shirt is **shorter** than the jacket"



"The yellow crayon is **longer** than the red."

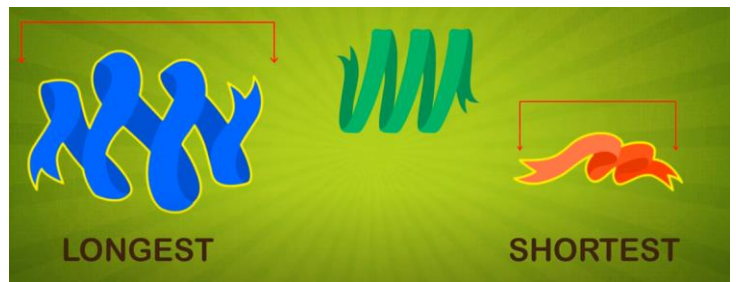
"The red crayon is **shorter** than the yellow."

Compare the length of three or more objects using the language '**longest**' and '**shortest**'.



"The blue bat is the **longest**."

"The purple bat is the **shortest**"



"The blue ribbon is the **longest**."

"The red ribbon is the **shortest**"

Challenge: Find one item in your home. e.g. a spoon. Find 2 things that are longer than your item and 2 things that are shorter. Use the language "shorter", "longer", "longest" and "shortest" to compare their lengths.

Swift Class

Use a tape measure or cut a piece of string to make it 1 metre (100cm) long.

Compare items around your house or garden to 1 metre. Are they **less than** (<), **equal to** (=) or **greater than** (>) 1 metre?

Record them in your book like this:

Table > 1m

Cupboard = 1m

Book < 1m



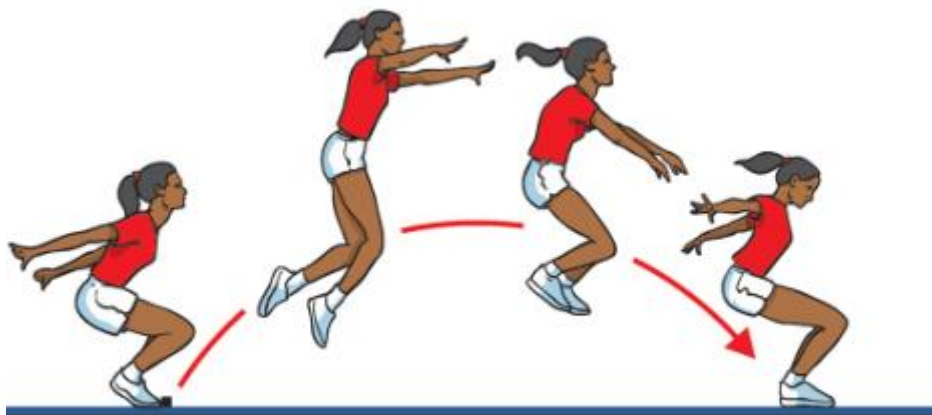
Bee Class

Maths Investigation - Do longer legs jump further?

Firstly, use a tape measure to measure your legs - from your hip to the floor - in cms. Do the same for another person(s) in your family. Complete the table:

Name	Length of leg (cm)	Distance jumped (cm)

You will need to set up a marker in which to jump from. Each person needs to stand on the marker and perform a standing long jump:



Using a tape measure, measure from the marker to where the person jumped to (the back of the foot) and write the results in the table. Repeat this for each person.

Finally, look at the results. Did the person with the longest legs jump the furthest?

Butterflies Class

Below are some interesting measurements and records from events at the Olympic Games. Unfortunately, they have been muddled up! Can you regroup them correctly?

You need to match the event, with a time and a unit of measurement.

Usain Bolt's 100 metres World Record	40	km
Mass of Women's Discus	02:15:25	mph
Women's Discus World Record	1500	km
Average speed of World Record Men's 50 km Walking race	1	metres
Men's Shot put World Record	76.8	hr:min:sec
Paula Radcliffe's Women's Marathon World Record	6.16	metres
Triathlon Swim (distance)	8.77	kg
Triathlon Bicycle ride (distance)	10	metres
Triathlon Run (distance)	9.58	seconds
Men's Pole Vault World Record	23.12	metres
Women's Long Jump World Record	18	cm
Men's High Jump World Record	21.34	hr:min:sec
Basketball hoop diameter	10	metres
Basketball hoop height	01:49:55	seconds
Diameter of Archery target	7.52	metres
Archers' distance from the target	01:46:25	metres
Height of Diving platform	2.45	hr:min:sec
Men's 10km Swimming 2012 Olympics winner's time	70	inches
Men's 50m Freestyle Swimming 2012 Olympics winner's time	122	metres
Men's Triathlon 2012 Olympics winner's time	10	feet