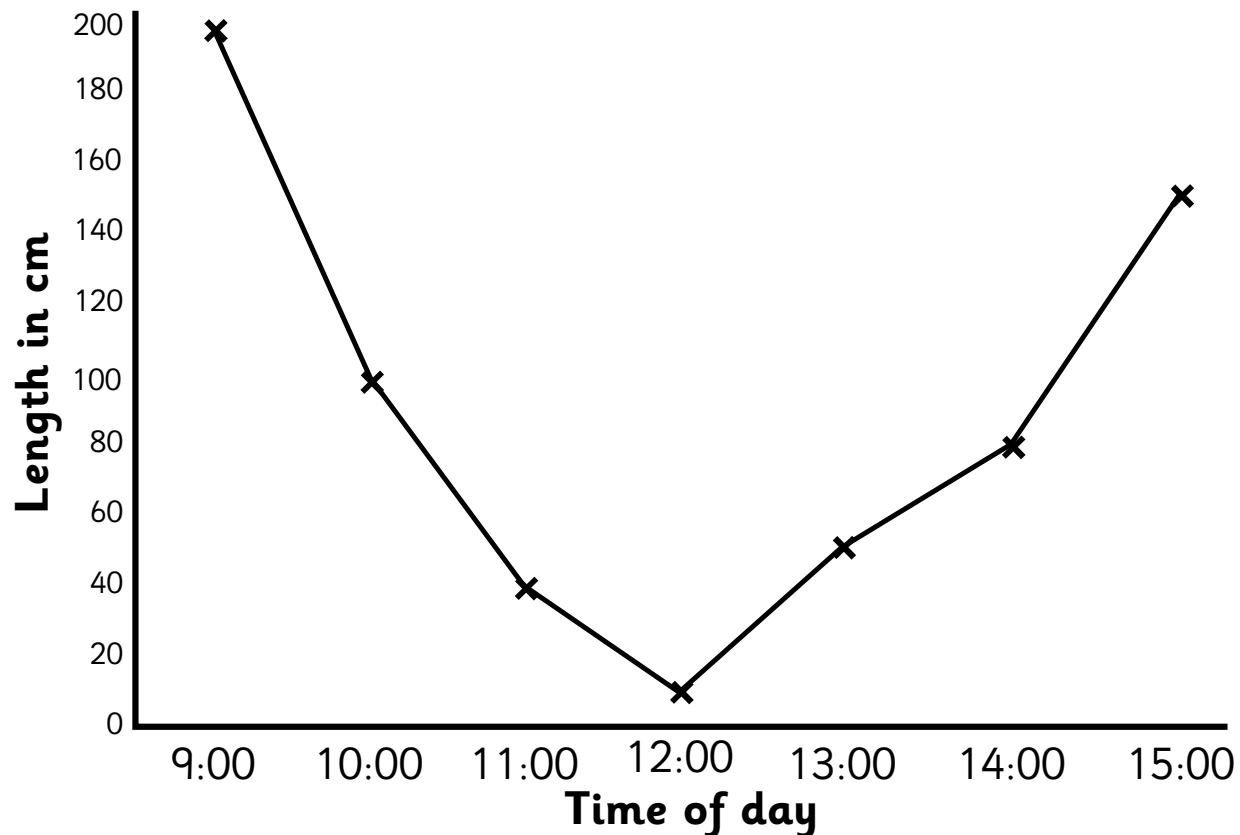


Shadow lengths



Year 3 have been measuring the length of shadows over the school day. They put a pole in the playground on a sunny day and drew around the shadow it cast.

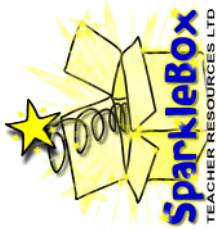
This line graph shows the changes in height that the shadow went through during the day.



Questions



- 1) When did the length of the shadow reach:
a) 40 cm? b) 80 cm? c) 2 m? d) 1 m? e) 150 cm?
- 2) What is the change in length between 13:00 and 15:00?
- 3) At which point of the day is the shadow the longest?
- 4) Why does the graph make this shape?
- 5) What is the approximate height at:
a) 12:00? b) 13:30? c) 10:30? d) 14:30?



SparkleBox Teacher Resources Limited

Address: PO Box 1008, Cheltenham, GL50 9GN | Fax: 01242 524548 | Email: enquiries@sparklebox.co.uk

A polite reminder about copyright

Many thanks for visiting [SparkleBox](#). As you can imagine, we spend a huge amount of time designing artwork and creating resources to add to the site each day. We trust that you have found some useful items to download!

In order to protect our livelihoods, the products on the site are subject to Copyright Conditions. We would kindly ask that you respect these as it will mean that we can continue making resources for you in the future.

The full copyright stipulations are available at <http://www.sparklebox.co.uk/copydon.html>, but there is a brief summary below. These conditions apply to this resource and all purchased resources from SparkleBox.

What you **can** do with this resource:

You may reproduce it for your own PERSONAL or CLASSROOM use ONLY

This means you can print it as often as you want, make photocopies, back up on disc etc, PROVIDED it is for your own use!

What you **must NOT** do with this resource:

It must NOT be reproduced for others IN ANY FORM or BY ANY MEANS

This includes electronic or mechanical, including photocopying, recording, or by any information storage or retrieval system.

Do not distribute to your friends!

Not only is it against the law, but it will ultimately prevent us from continuing to produce predominantly free resources for teachers.

Thank you for respecting these terms - we appreciate it!

Kind regards,

The SparkleBox Team