MEASURING AND COMPARING

How Tall is Tall?

COMPARING STRUCTURES

Young Explorer

MEASURING AND COMPARING

How Tall is Tall?

Comparing Structures

Vic Parker

Raintree

www.raintreepublishers.co.uk
Visit our website to find out more information about Raintree books.

To order:
Phone 0845 6044371
Fax +44 (0) 1865 312263
Email myorders@raintreepublishers.co.uk

Customers from outside the UK please telephone +44 1865 312262

Raintree is an imprint of Capstone Global Library Limited, a company incorporated in England and Wales having its registered office at 7 Pilgrim Street, London, EC4V 6LB – Registered company number: 6695582

Edited by Nancy Dickmann, Rebecca Rissman, and Sian Smith
Designed by Victoria Allen
Picture research by Hannah Taylor
Original illustrations © Capstone Global Library Ltd
Original illustrations by Victoria Allen
Production by Victoria Fitzgerald
Originated by Dot Gradations Ltd
Printed and bound in China by South China Printing Company Ltd

ISBN 978 0 431 00683 3
14 13 12 11 10
10 9 8 7 6 5 4 3 2 1

British Library Cataloguing in Publication Data
Parker, Victoria.
How tall is tall? : comparing structures. --
(Measuring and comparing)
1. Tall buildings--Juvenile literature. 2. Measurement--Juvenile literature.
I. Title II. Series
530.8-dc22

Acknowledgements
The author and publisher are grateful to the following for permission to reproduce copyright material: Alamy Images pp.**10** (© vario images GmbH & Co.KG), **12** (© inga spence), **18** (© JLImages); © Capstone Publishers pp.**4**, **8**, **26**, **27** (Karon Dubke); Corbis p.**24** (epa/ Peter Kneffel); istockphoto p.**20** (© Henryk Sadura); Photolibrary pp.**5**, **6** (age fotostock/ P Narayan), **7** (Len Delessio); shutterstock pp.**14** (© BEEE), **16** (© upthebanner); Wayne Howes p.**22**.

Photographs used to create silhouettes: shutterstock, child (© angel digital), house (© Andrii Syneok), pylon (© Fica), London Eye (© Cihan Demirok, CIDEPIX), Golden Gate Bridge (© Slobodan Djajic), Eiffel Tower (© Ints Vikmanis), Willis Tower (© jamaican).

Cover photograph of the skyline from Brooklyn Heights promenade, New York reproduced with permission of Photolibrary (Steve Dunwell).

Every effort has been made to contact copyright holders of material reproduced in this book. Any omissions will be rectified in subsequent printings if notice is given to the publisher.

Disclaimer
All the Internet addresses (URLs) given in this book were valid at the time of going to press. However, due to the dynamic nature of the Internet, some addresses may have changed or ceased to exist since publication. While the author and publisher regret any inconvenience this may cause readers, no responsibility for any such changes can be accepted by either the author or the publisher.

Contents

Words appearing in the text in bold, **like this**, are explained in the glossary.

MEASURING AND COMPARING

How Tall is Tall?

Comparing Structures

Vic Parker

Raintree

www.raintreepublishers.co.uk
Visit our website to find out more information about Raintree books.

To order:
Phone 0845 6044371
Fax +44 (0) 1865 312263
Email myorders@raintreepublishers.co.uk

Customers from outside the UK please telephone +44 1865 312262

Raintree is an imprint of Capstone Global Library Limited, a company incorporated in England and Wales having its registered office at 7 Pilgrim Street, London, EC4V 6LB
– Registered company number: 6695582

Edited by Nancy Dickmann, Rebecca Rissman, and Sian Smith
Designed by Victoria Allen
Picture research by Hannah Taylor
Original illustrations © Capstone Global Library Ltd
Original illustrations by Victoria Allen
Production by Victoria Fitzgerald
Originated by Dot Gradations Ltd
Printed and bound in China by South China Printing Company Ltd

ISBN 978 0 431 00683 3
14 13 12 11 10
10 9 8 7 6 5 4 3 2 1

British Library Cataloguing in Publication Data
Parker, Victoria.
How tall is tall? : comparing structures. --
(Measuring and comparing)
1. Tall buildings--Juvenile literature. 2. Measurement--Juvenile literature.
I. Title II. Series
530.8-dc22

Acknowledgements
The author and publisher are grateful to the following for permission to reproduce copyright material: Alamy Images pp.**10** (© vario images GmbH & Co.KG), **12** (© inga spence), **18** (© JLImages); © Capstone Publishers pp.**4**, **8**, **26**, **27** (Karon Dubke); Corbis p.**24** (epa/ Peter Kneffel); istockphoto p.**20** (© Henryk Sadura); Photolibrary pp.**5**, **6** (age fotostock/ P Narayan), **7** (Len Delessio); shutterstock pp.**14** (© BEEE), **16** (© upthebanner); Wayne Howes p.**22**.

Photographs used to create silhouettes: shutterstock, child (© angel digital), house (© Andrii Syneok), pylon (© Fica), London Eye (© Cihan Demirok, CIDEPIX), Golden Gate Bridge (© Slobodan Djajic), Eiffel Tower (© Ints Vikmanis), Willis Tower (© jamaican).

Cover photograph of the skyline from Brooklyn Heights promenade, New York reproduced with permission of Photolibrary (Steve Dunwell).

Every effort has been made to contact copyright holders of material reproduced in this book. Any omissions will be rectified in subsequent printings if notice is given to the publisher.

Disclaimer
All the Internet addresses (URLs) given in this book were valid at the time of going to press. However, due to the dynamic nature of the Internet, some addresses may have changed or ceased to exist since publication. While the author and publisher regret any inconvenience this may cause readers, no responsibility for any such changes can be accepted by either the author or the publisher.

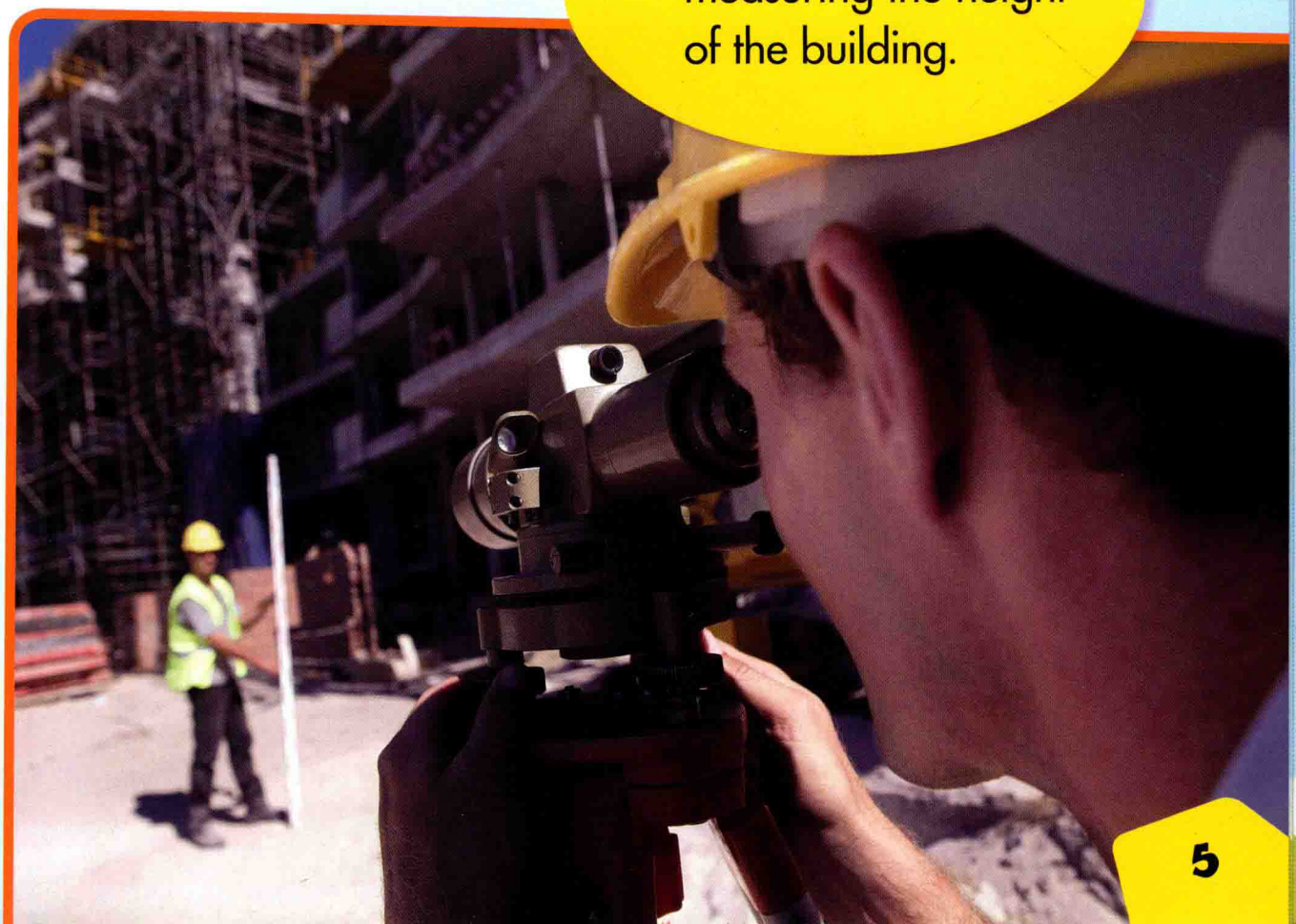
Contents

Words appearing in the text in bold, **like this**, are explained in the glossary.

Measuring height

The height of something is how tall it is. To measure height you can use a ruler, wall chart, tape measure, or measuring stick. These are marked in millimetres (mm), centimetres (cm), and metres (m).

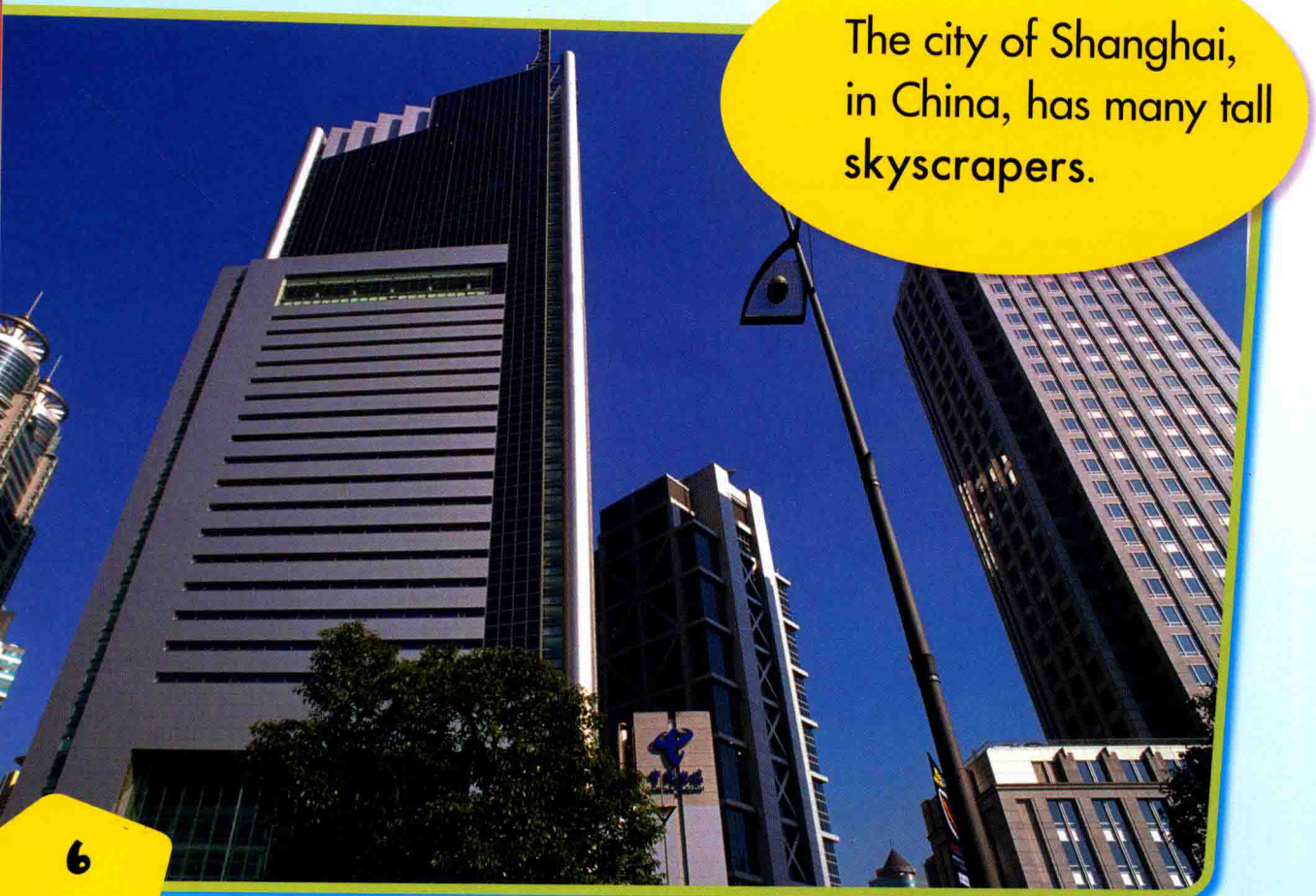
There are some things we can't reach the top of, such as buildings. To measure the height of buildings, experts use special tools which look rather like cameras.



This **surveyor** is measuring the height of the building.

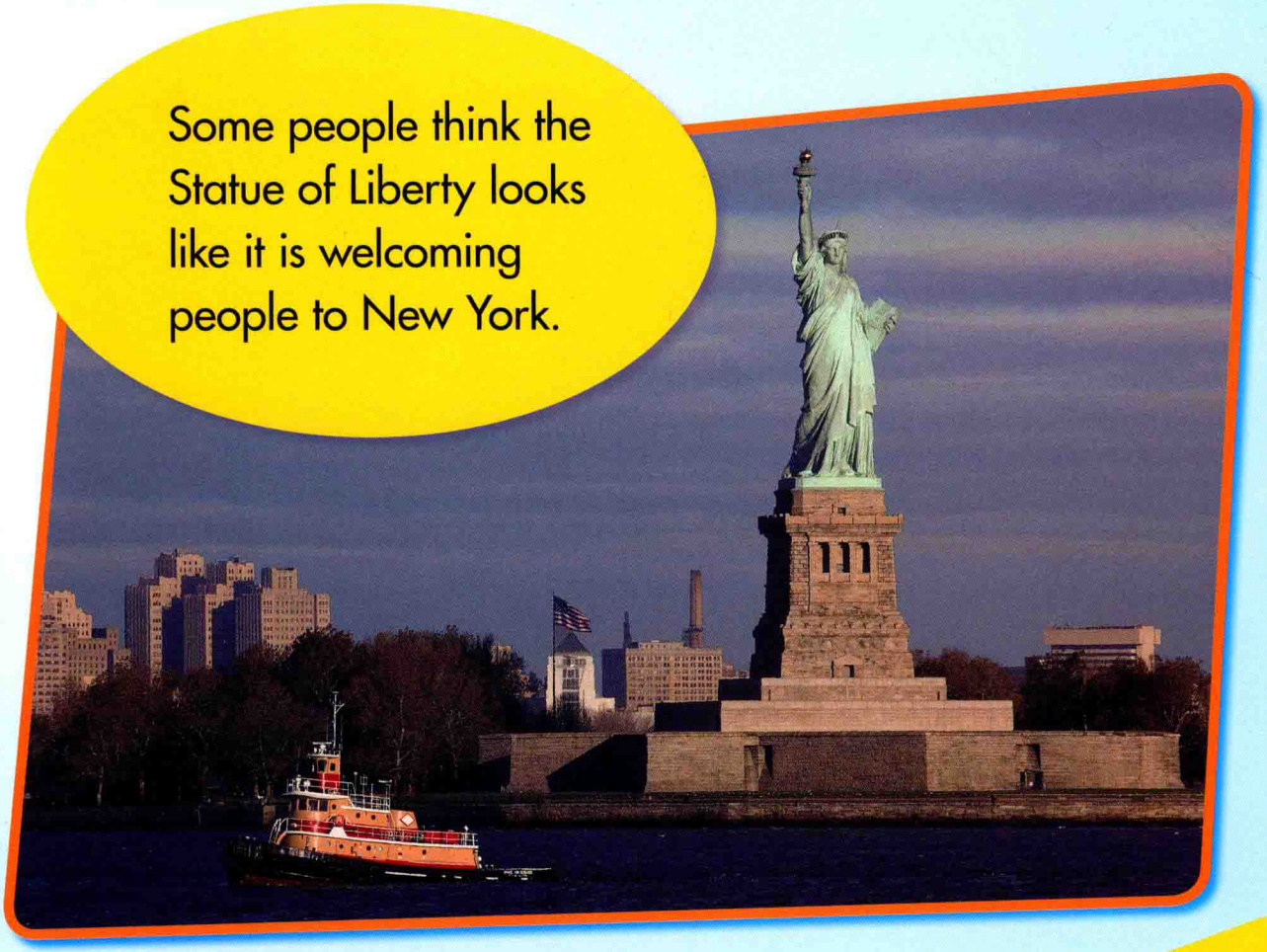
Why do people build tall structures?

Tall buildings can be useful. This is because they can fit hundreds or even thousands of people inside, without taking up much ground. This is helpful in crowded cities.



The city of Shanghai, in China, has many tall skyscrapers.

Tall structures can be impressive and beautiful. The Statue of Liberty stands in New York Harbor in the USA. People on ships heading for New York can see the statue from a long way off.

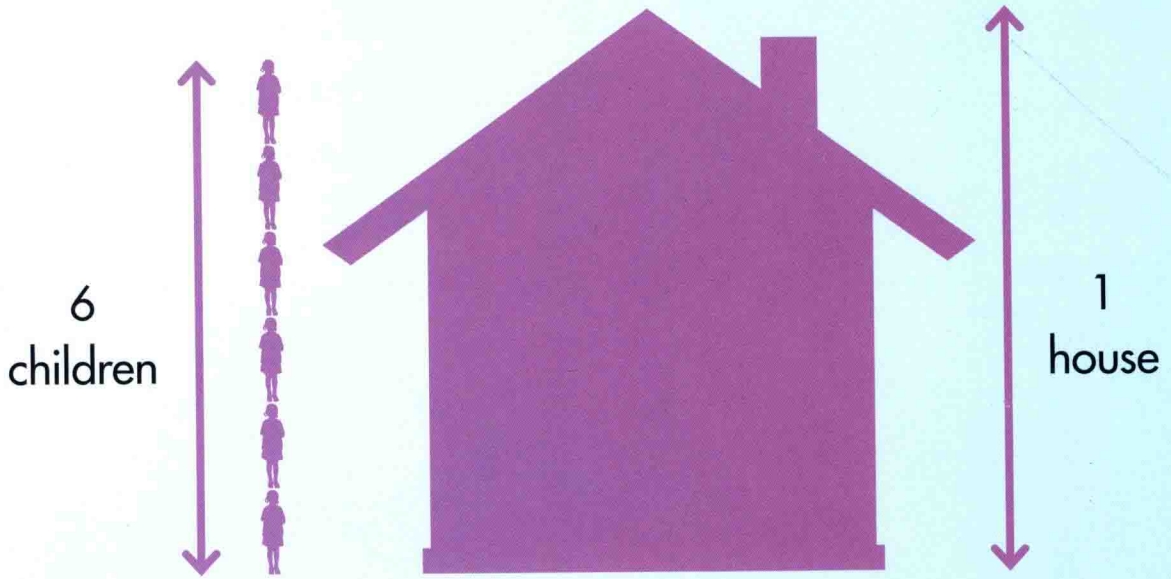


Measure your height

Have you ever measured how tall you are? Compared to a younger brother or sister, you might be tall. But how tall is tall?

You can measure yourself in centimetres or metres.

A house with two floors is often about 7½ metres high. If you and five of your friends stood on top of each other, you wouldn't quite reach the top of a house.

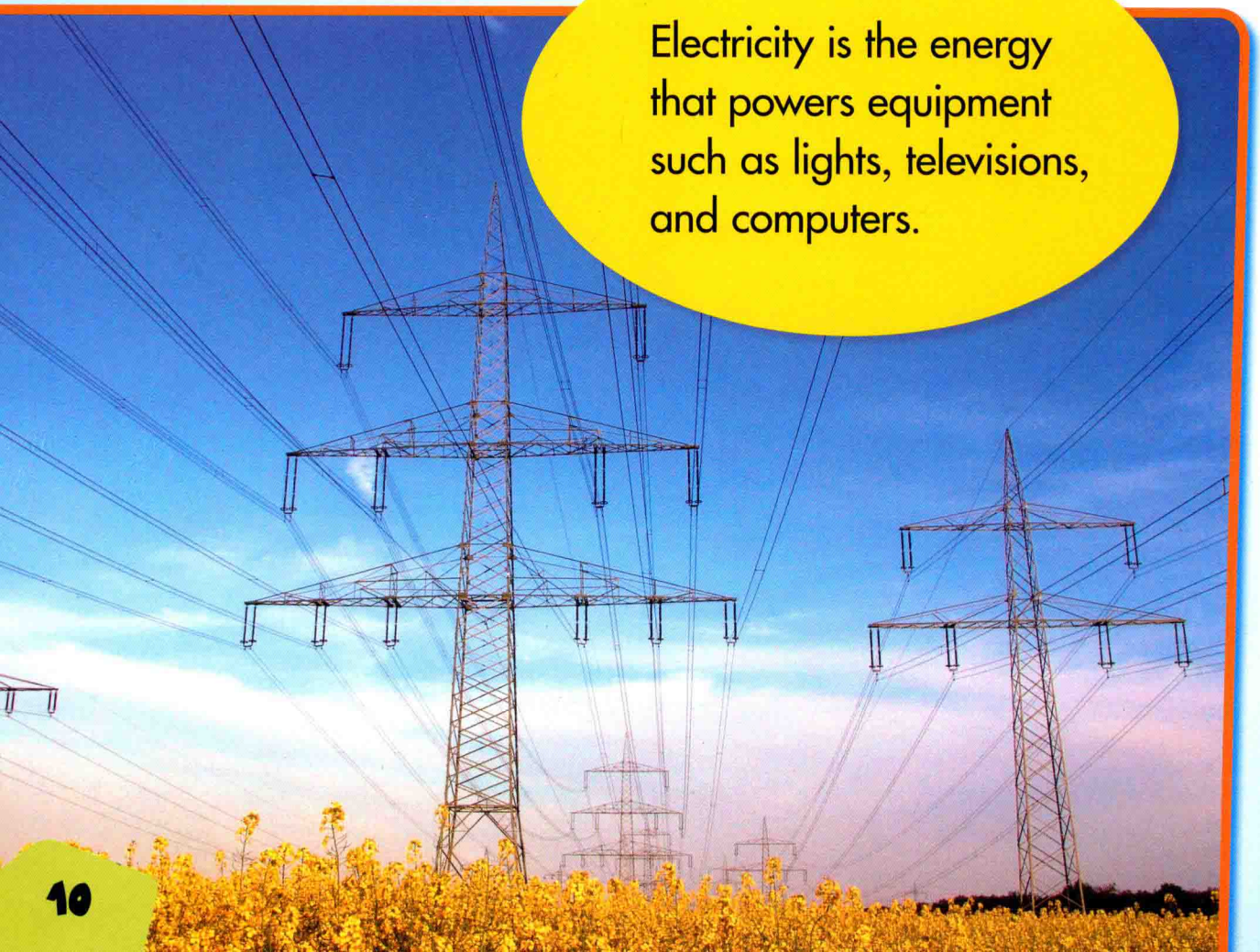


What is taller than a house? →

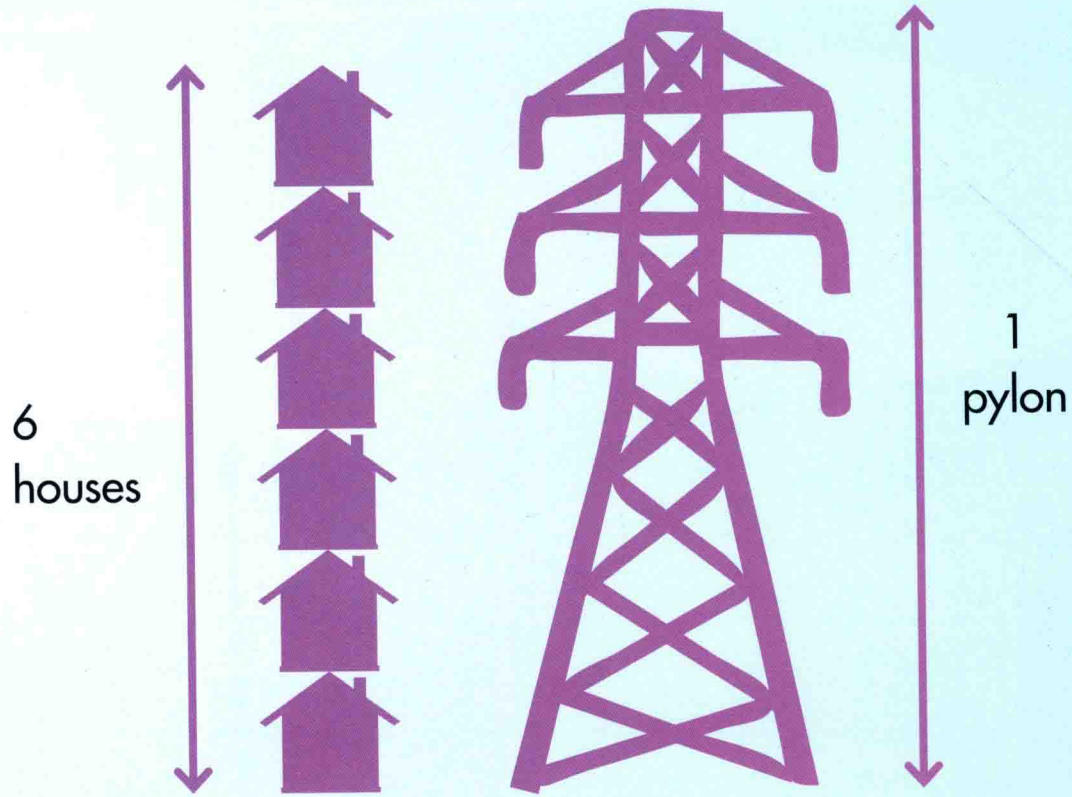
Electricity pylons

An **electricity pylon** is taller than a house. Electricity pylons are made from steel. They carry cables for **electricity** from place to place.

Electricity is the energy that powers equipment such as lights, televisions, and computers.



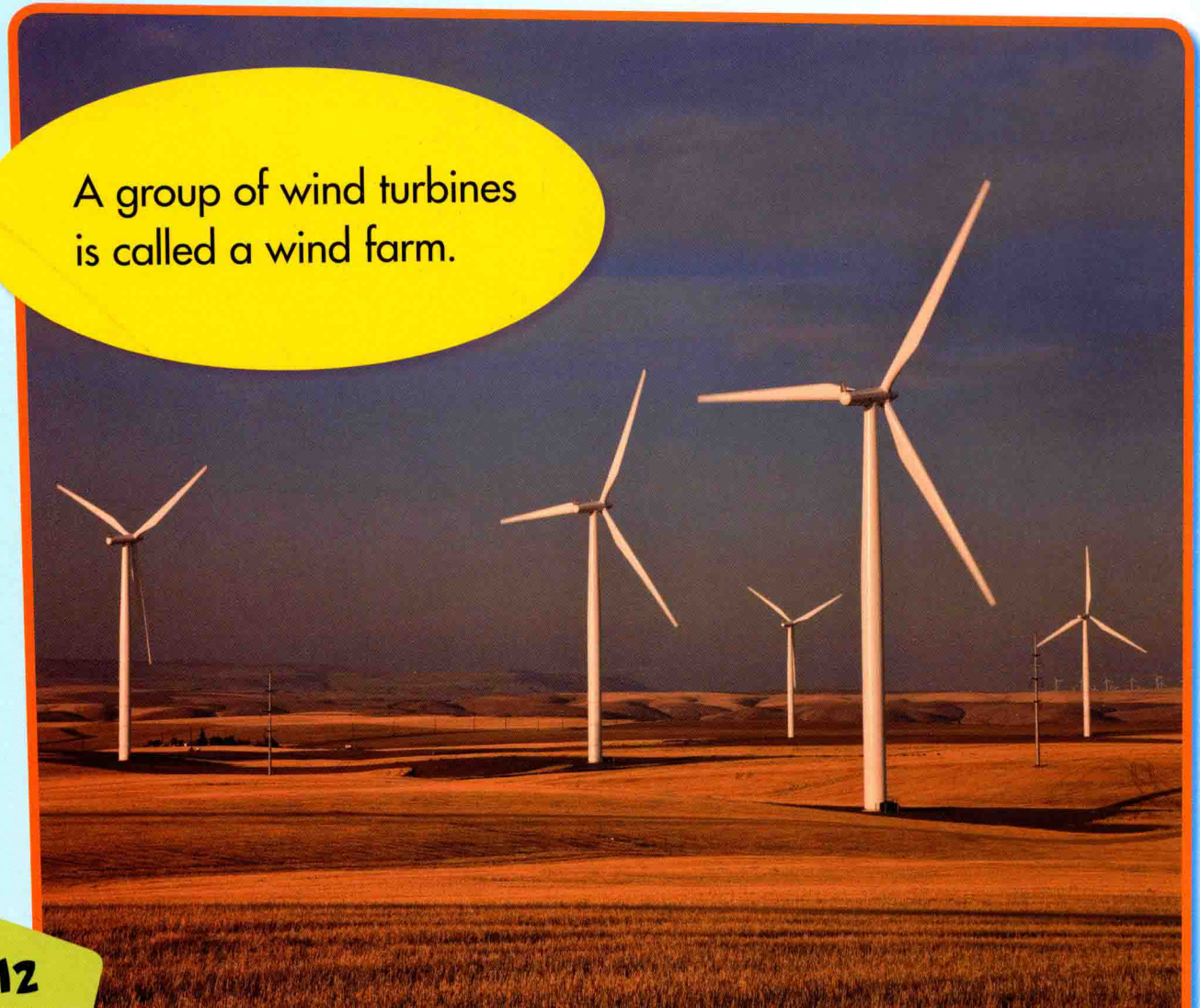
A regular electricity pylon is about 50 metres tall. This is higher than six houses on top of each other.



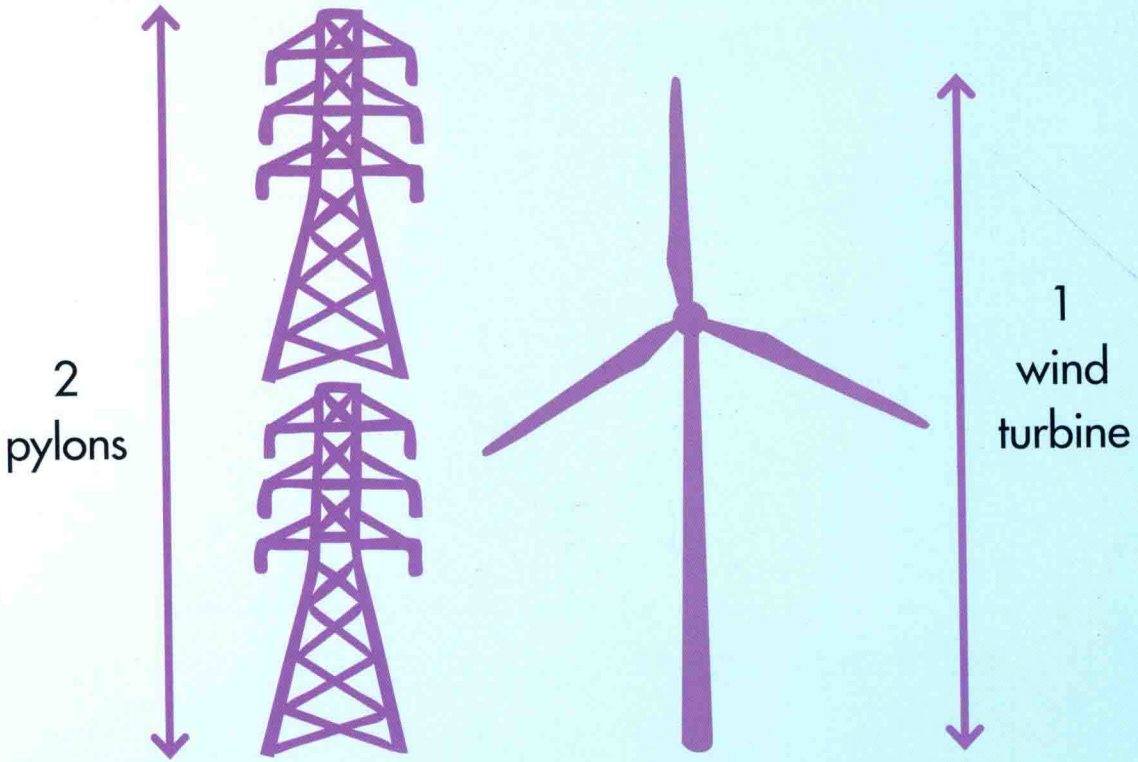
What is taller than an electricity pylon? →

Wind turbines

A **wind turbine** is taller than an **electricity pylon**. Wind turbines are like giant windmills. They use the power of the wind to make **electricity**.



A wind turbine can be around 90 metres tall. This is nearly as high as two electricity pylons on top of each other.



What is taller than a wind turbine?