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extracts from

You Do the Maths: Design a Skyscraper

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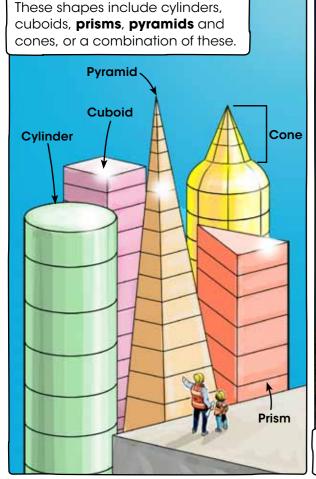
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SHAPES OF **SKYSCRAPERS**

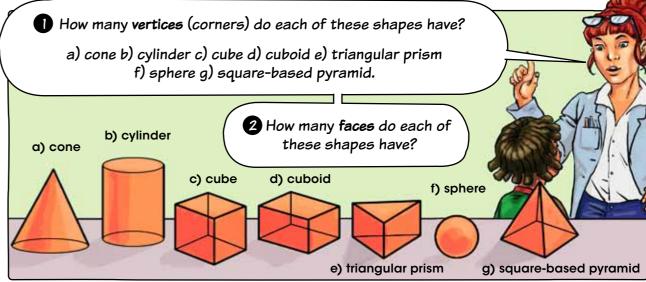
You have been asked to design a towering skyscraper using the latest designs and cutting-edge technology and materials.

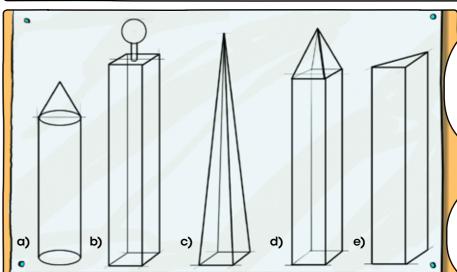






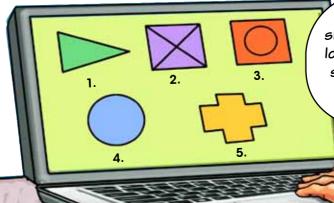
curved shapes, like the two shown here.





3 Write the names of the 3D shapes used in these skyscrapers. Some of them use more than one 3D shape.

4 How many faces on each of the skyscrapers in question 3 are open to the air?



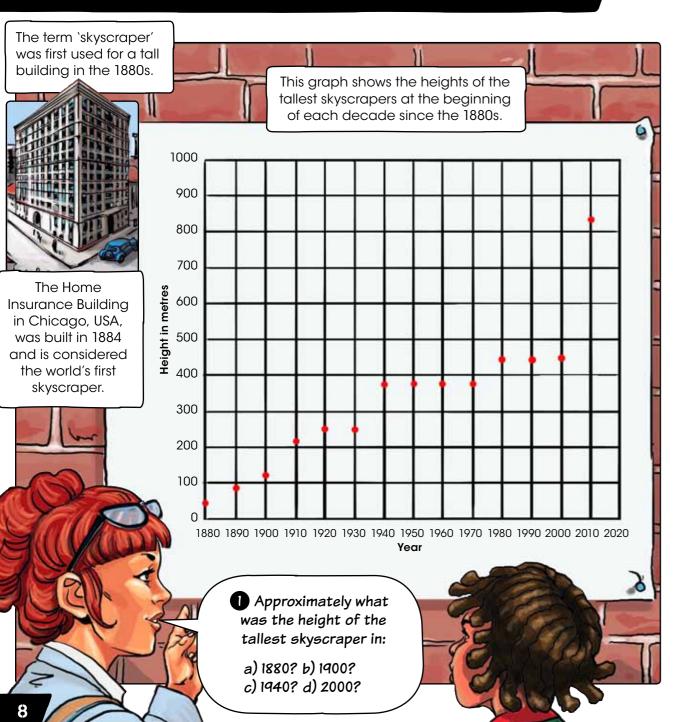
5 Which of these shapes would you see if you looked straight down on the skyscrapers in question 3. Which shape wouldn't you see?

WHAT ABOUT THIS?

Think about the shape of the skyscraper you would like to build. What shape would it be? Would the faces be curved or flat?

RECORD-BREAKING SKYSCRAPERS

As part of your research into other tall buildings, you have been looking into the history of skyscrapers.



2 The Empire State Building was the tallest building in the world for about 40 years. Use the graph to work out the answers to these questions: a) In which decade was it built? b) About how tall is it? c) Approximately how much taller was the Empire State Building than the tallest skyscraper in 1930? d) Approximately how much smaller is the Empire State Building than the tallest skyscraper was in 2000? 3 The Petronas Twin Towers in Kuala Lumpur were the first buildings taller than 450 metres. They were the tallest buildings in the world for six years. In which 20-year period were they the tallest? 4 During which decade was there the largest increase in the height of the tallest skyscraper?

WHAT ABOUT THIS?

The Taipei 101 Tower was the tallest skyscraper for six years, measuring 509 metres. Look at the graph. In which decade was it the tallest? Explain why there is not a mark showing its height.

SECURING THE SITE

Once the site has been cleared, you'll need to fence it off for security and safety reasons before building work can begin.

