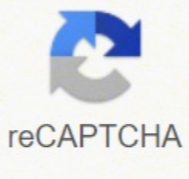




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**Continue**

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<p><b>Section 2: Livelihoods, Economies and Societies:</b> Any one theme of the following:</p> <p><b>3. The Making of a Global World</b></p> <ul style="list-style-type: none"> <li>The Pre-modern world</li> <li>The Nineteenth Century (1815-1914)</li> <li>The Inter war Economy</li> <li>Rebuilding a World Economy: The Post-War Era</li> </ul> <p><b>4. The Age of Industrialization</b></p> <ul style="list-style-type: none"> <li>Before the Industrial Revolution</li> <li>Hand Labour and Steam Power</li> <li>Industrialization in the colonies</li> <li>Factories Come Up</li> <li>The Peculiarities of Industrial Growth</li> <li>Market for Goods</li> </ul> <p><b>Section 3: Everyday Life, Culture and Politics</b></p> <p><b>5. Print Culture and the Modern World</b></p> <ul style="list-style-type: none"> <li>The First Printed Books</li> <li>Print Comes to Europe</li> <li>The Print Revolution and its Impact</li> <li>The Reading Mania</li> <li>The Nineteenth Century</li> <li>India and the World of Print</li> <li>Religious Reform and Public Debates</li> <li>New Forms of Publication</li> <li>Print and Censorship</li> </ul>	<ul style="list-style-type: none"> <li>Appreciate the ideas promoting Pan Indian belongingness.</li> <li>Show that globalization has a long history and point to the shifts within the process.</li> <li>Analyze the implication of globalization for local economies.</li> <li>Discuss how globalization is experienced differently by different social groups.</li> <li>Familiarize with the Pro- to-Industrial phase and Early – factory system.</li> <li>Familiarize with the process of industrialization and its impact on labour class.</li> <li>Enable them to understand industrialization in the colonies with reference to Textile industries.</li> <li>Identify the link between print culture and the circulation of ideas.</li> <li>Familiarize with pictures, cartoons, extracts from propaganda literature and newspaper debates on important events and issues in the past.</li> <li>Understand that forms of writing have a specific history, and that they reflect historical changes within society and shape the forces of change.</li> </ul>
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# Maths Mastery

## Method 1

### Trial and Improvement

- Use squared paper. How many polygons can you draw which have the same number for their perimeter and area?
- How many different nets can you make for an open cube? How about a closed cube?
- How many tricycles and cars would have a total of 70 wheels? How many solutions are there? How many beetles, spiders and centipedes would total 110 legs? How many solutions are there?
- Fill in the pyramid on the attached sheet with numbers. The top number must be 250 and the 2 numbers below must total the one above. Now change the top number. Now add more boxes to the pyramid. How many levels can it have?
- $ABC + CBA = DED$  How many possible solutions?
- 2025 is the total of which 3 numbers? 2184 is the product of which 3 numbers? Now write your own similar challenge.
- Which square numbers add together to make another square number? Now try this with triangular numbers and prime numbers too.
- How many parallelograms can you draw in a  $3 \times 7$ cm grid (the corners must be on the grid points). Try different sizes of grid and see if you can spot a pattern.
- Roll a 10-sided dice 3 times. Find a common multiple of the 3 numbers.
- Can you fill the blank Sudoku grid on the attached sheet?



Resource Bank  
primary

**SCALE FACTOR**

**Scale Factor**

- The ratio of the length of two corresponding sides of two similar geometric figures is called scale factor.
- Formula:  $\text{Actual Size} \times \text{Scale Factor} = \text{Drawing Size}$

**Example 1:** The actual length of a garden is 15 meters and the length of it in the drawing is 8 cm. What is the scale factor?

Actual Size	Drawing size	
15 m	8 cm	

The scale factor is 2375 which means that the drawing size is 2375 times the actual size of the garden.

$$\frac{8 \text{ cm}}{15 \text{ m}} \times \frac{1 \text{ m}}{100 \text{ cm}} = \frac{8}{1500} = \frac{2}{375}$$

**Example 2:** You bought a rectangular cabinet having a width of 2 meters. You decided to draw it and used a scale factor of 3/100. What is the width of your scale drawing?

Formula:  $\text{Actual Size} \times \text{Scale factor} = \text{Drawing Size}$

$$2 \text{ meters} \times \frac{3}{100} = 0.06 \text{ m}$$

Solving Problems Involving Scale Drawings of Geometric Figures





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