'esson Seven – Working Backwords Word Problems

Remember: When working with word problems you **MUST ALWAYS** include:

- a sketch (if not present)
- an equation
- show the substitution of values into the equation
- round your final answer to 2 decimal places
- units in your final answer
- state your final answer as a sentence

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1. A giant chocolate bar (rectangular prism) has a surface area of 600 in². If the length is 15 inches and the height is 5 inches, calculate the width.

2. A cylindrical grain bin has a base radius of 5 m. The surface area is 1100 m². Calculate the height of the bin.

3. The Omnimax Theatre at Science World in Vancouver is shaped like a sphere. If the surface area is 6940m², what would the diameter be?

4. A cube shaped ice fishing shack has a surface area of 36m². Calculate the length of one side of the shack.

5. An ice-cream cone has a surface are of 37.7cm² and a radius of 2 cm. Calculate the slant height of the cone.