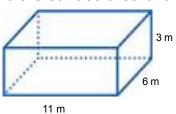
Which is volume??? Which is surface area???

- 1. Building a box. The amount of wood needed?
- 2. Filling a swimming pool with water?
- 3. Painting the outside of an object?
- 4. Wrapping the gift box?
- 5. Rice Crispy treats in a pan?
- 6. Building a box. The amount of material to fill it?

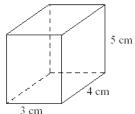
When you double the dimensions of a rectangular prism, what happens to the volume? Does it increase or decrease and by how many times?

When you double the dimensions of a rectangular prism, what happens to the surface area? Does it increase or decrease and by how many times?

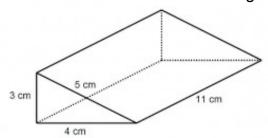
1. Find the surface area of this rectangular prism: a) 117 m² b) 20 m² c) 234 m² d) 198 m²



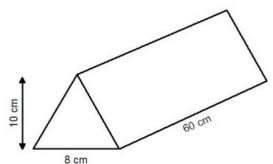
2. Find the volume of this rectangular prism: a) 60 cm³ b) 94 cm³ c) 12 cm³ d) 30 cm³



3. Find the surface area of this triangular prism: a) 156 cm² b) 144 cm² c) 138 cm² d) 111 cm²



4. Find the volume of this triangular prism: a) 1520 cm³ b) 78 cm³ c) 4800 cm³ d) 2400 cm³



5. What shapes do you need for an o	ctagonal pyramid?
a) 1 octagon 8 triangles	c) 1 octagon 8 rectangles
b) 2 octagons 8 rectangles	d) 2 octagons 8 rectangles

- 6. What shapes do you need for an octagonal prism?
- a) 1 octagon 8 triangles c) 1 octagon 8 rectangles
- b) 2 octagons 8 rectangles d) 2 octagons 8 rectangles
- 7. Complete this net for a triangular prism. What shapes do you add?

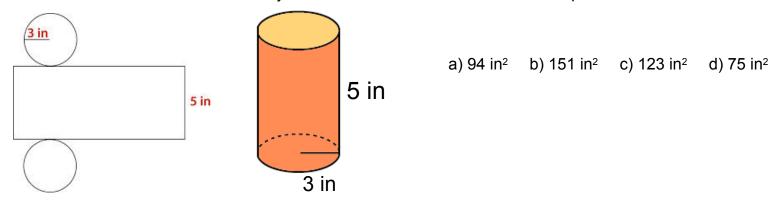


- a) 3 squares
- b) 1 triangle and 2 squares
- c) 1 triangle and 3 squares
- d) 3 triangles
- 8. Complete this net for a triangular pyramid. What shapes do you add?
 - a) 3 squares

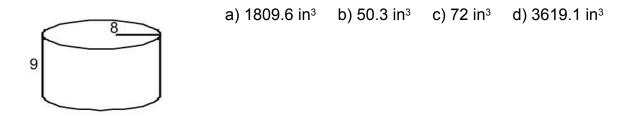


- b) 1 triangle and 2 squares
- c) 1 triangle and 3 squares
- d) 3 triangles

9. Use this net to find the area of the cylinder. Give the answer to the nearest square inch.



10. Find the volume of this cylinder. Round your answer to the nearest tenth.



11. A cylinder shape tank has a diameter of 3 m and a length of 14.6 m. What is the volume? Round your answer to the nearest tenth.