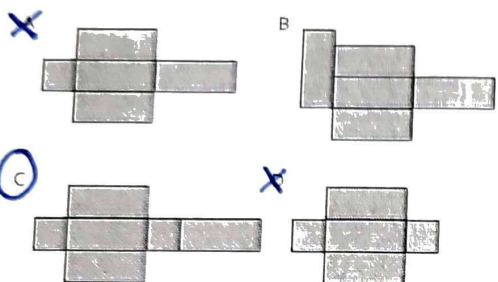


1. The second cube has one of the corner unit cubes removed. How do their surface areas compare?

- a. Cube 2 has a smaller Surface Area
- b. Cube 2 has a larger Surface Area
- c. Same Surface Area



2. For each of these nets, decide if it can be assembled into a rectangular prism.

A - NO (missing square) C - Yes
 B - No (5 sides) D - No (missing top)

3. A cube has a side length of 4 inches. Choose all the values that represent the cube's volume in cubic inches.

- 4^3
- 4^2
- 6×4^2
- $4 \times 4 \times 4$
- 6×4

4. A square has a side length of 6. What is its area?

6^2 or 36 square units

5. A square has an area of 16 cm^2 . What is its side length?

4 cm because $4 \cdot 4 = 16$

6. Indicate the relationship between these square numbers.

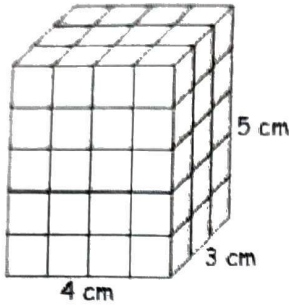
12^2 is less than 15^2

7. Indicate the relationship between these expressions.

2×4^2 is less than 4^3

8. Indicate the relationship between these expressions.

5^3 is less than 10^3

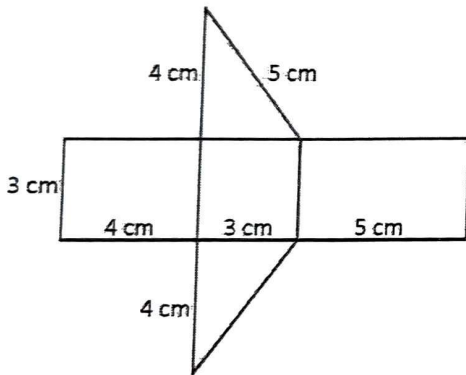


9. A rectangular prism has dimensions of 4 cm by 3 cm by 5 cm. What is its surface area?

$$\begin{aligned} 4 \cdot 3 &= 12 \\ 5 \cdot 3 &= 15 \\ 4 \cdot 5 &= 20 \end{aligned}$$

$$\begin{array}{r} 24 \\ 30 \\ + 40 \\ \hline 94 \end{array}$$

94 cm^2



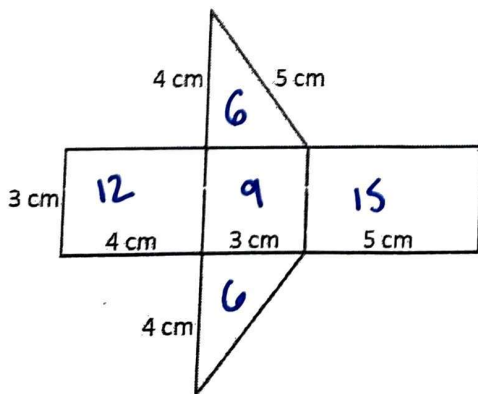
10. Here is a net made of right triangles and rectangles. All measurements are given in centimeters.

If the net were folded and assembled, what type of polyhedron would it make?

Triangular Prism

11. Here is a net made of right triangles and rectangles. All measurements are given in centimeters.

What is the surface area of the polyhedron?



$$\begin{aligned} 3 \cdot 4 &= 12 \\ 3 \cdot 3 &= 9 \\ 3 \cdot 5 &= 15 \\ 3 \cdot 4 \div 2 &= 6 \end{aligned}$$

$$12 + 6 + 9 + 6 + 15 = 48$$

48 cm²