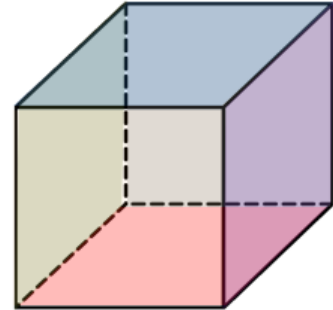


# Surface Area of a Cube

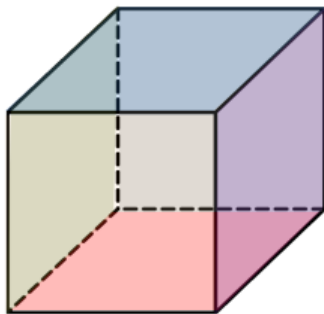
A cube can be described as a *three-dimensional* object.

- How would I explain or describe an object that is *three-dimensional*?
- How would I describe the *surface* of a cube?



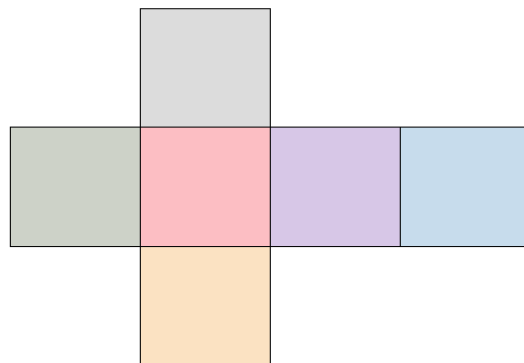
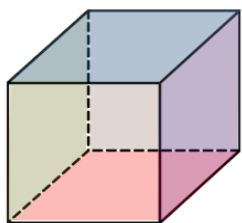
Another way to see the surface of a cube is to draw a *net*.

- How would I explain and demonstrate drawing a *net* diagram of a cube?

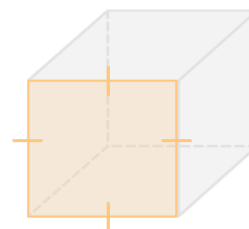


A cube is made using 6 *congruent squares*.

- How would explain or describe a *square*?



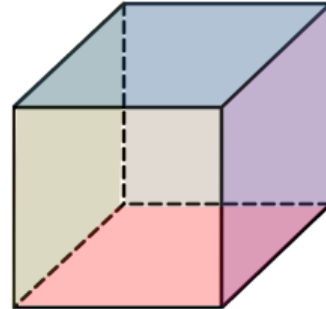
- Because a square has 4 equal sides, what does this tell me about the dimensions of any cube?





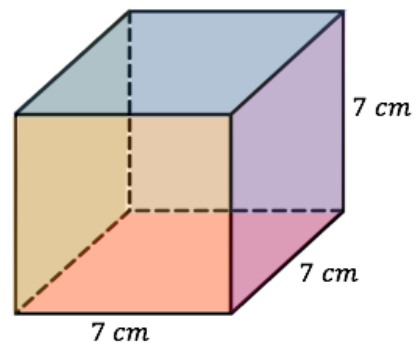
A cube also has a *surface area*.

- How would I explain the *surface area* of a cube?

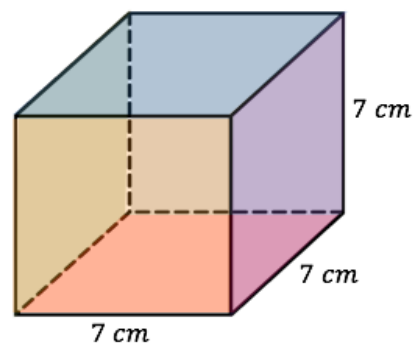


The dimensions of the cube are show here.

- How would I explain and demonstrate calculating the area of one square face of the cube?



- How would I explain using the area of one square face to calculate the surface area of the cube?



## Surface Area of a Cube

Which statements do I feel confident explaining and demonstrating?

Which statements do I not feel confident explaining and demonstrating?

- ✓ I can describe and give examples of a three-dimensional object
- ✓ I can visualize and describe the two-dimensional shapes that make up a three-dimensional cube
- ✓ I can draw the net of a cube
- ✓ I can demonstrate how I calculate the area of a two-dimensional shape such as a square
- ✓ I can explain surface area and demonstrate how I calculate the surface area of a cube