The shipping box could be described as a *three-dimensional* object.

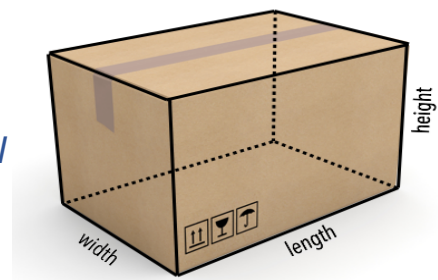- How would I explain or describe an object that is *three-dimensional?*

A three-dimensional object also has a *surface area.*

- How would I explain *surface area?*

The shipping box is a three-dimensional object made from two-dimensional shapes.

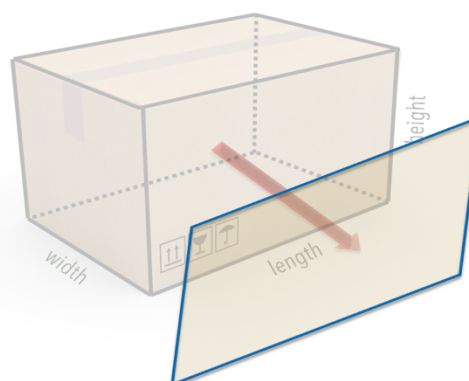- How would I compare a *three-dimensional* object with a *two-dimensional* shape?

- How would I visualize all of the *two-dimensional* shapes that make up this *three-dimensional* box?
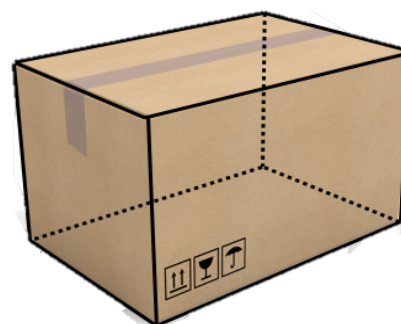
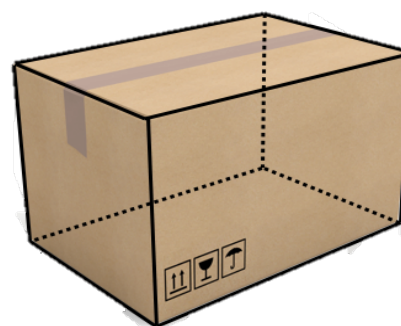- Can I recall and explain how to calculate the *area* of a two-dimensional shape such as a rectangle?

A *net* would also show the *two-dimensional* shapes that make up my *three-dimensional* object.

- How would I explain or describe a *net?*

- How would I draw the *net diagram* of my *three-dimensional* shipping box?

The dimensions of the shipping box are $45cm \times 35cm \times 30cm$.

- How would I show these dimensions*?*

- How would I use these dimensions to calculate the area of each rectangular surface of the box?

30cm

35cm   45cm

- How will I use my area calculations to determine the surface area of the shipping box?

- What steps of my solution path would I check to verify my solution is correct?
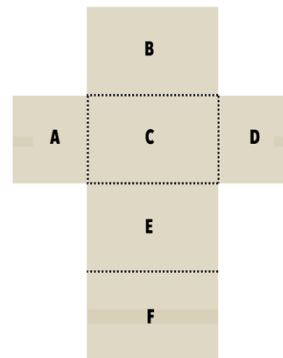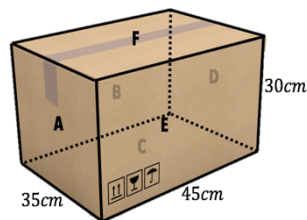
- How would a *net* allow me to determine the surface area of my shipping box?
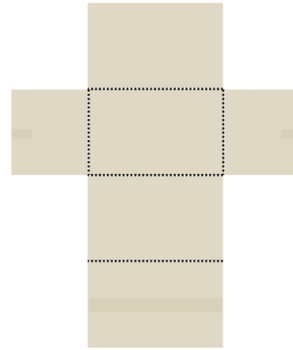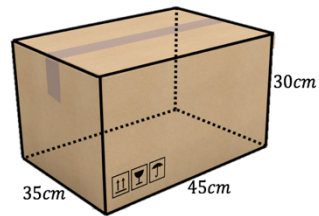
- How would I use my prism to label the dimensions of the six rectangles on my *net?*

- How would I demonstrate using my *net* to calculate the *surface area* of the prism?

Surface Area of a Rectangular Prism

Which statements do I feel confident explaining and demonstrating?
Which statements do I <u>not</u> feel confident explaining and demonstrating?

✓ I can <u>compare</u> a three-dimensional object with a two-dimensional shape

✓ I can <u>visualize</u> and <u>describe</u> the two-dimensional shapes that make up a three-dimensional object

✓ I can <u>draw</u> a net for a three-dimensional rectangular prism

✓ I can <u>demonstrate</u> how I calculate the area of a two-dimensional shape such as a rectangle

✓ I can <u>explain</u> surface area and <u>demonstrate</u> how I calculate the surface area of a rectangular prism