

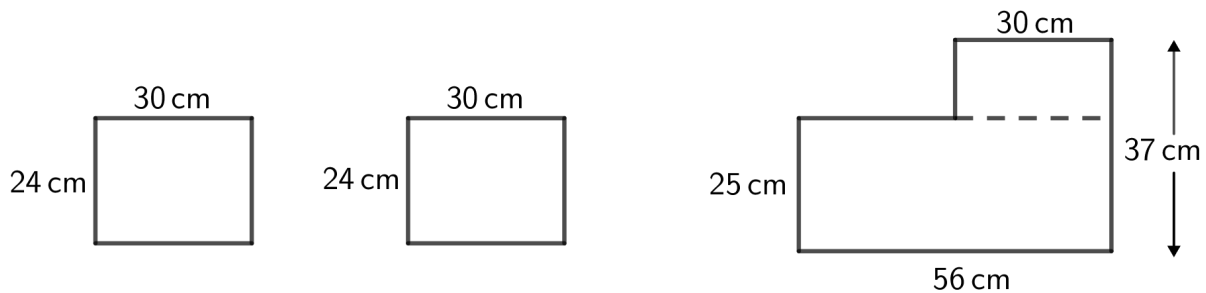


Problem of the Week

Problem B

Painting Stones

Iwa wishes to add three stepping stones to her garden. Two of the stepping stones are identical rectangular prisms and the third is a prism made up of two rectangular prisms. The dimensions of the top face of each of the three stepping stones are shown in the diagram below.



- Iwa wants to paint the top faces of the three stones. What is the area that she will paint?
- Iwa realizes that the side faces of the prisms will also be seen and, therefore, she wants to paint these as well. If these stones all have height of 6 cm, what is the total area that she will actually paint?
- She wants to put edging tightly around each of the stepping stones. What length of edging will she need?