1. ****The object at the right is constructed using
linking cubes. Each face of a cube has an area
of 1 unit2.

**a)** Describe or show on the diagram where
there are overlapping faces.

**b)** Determine the surface area of the composite object.

1. Determine the surface area of the
composite object at the right.

1. Use the diagram on the right.

 The triangular prisms are congruent.

 Here is a student’s work to determine the surface

 area of the composite object. Describe any errors and

 show a correct solution.

 Triangular Prisms:
(4)()(40)(30) + 50(1)(2)

 + 30(1)(2) + 40(1)(2) = 2640

 Cylinder:
π(1)(60) = 188.5

Total surface area: 2828.5 cm24. The diagram at the right shows part of a platform
for off-shore drilling.

 All the exposed surfaces (top and bottom)
are to be prepared for use. Determine the
surface area of the platform.