Master 1.18

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| Lesson 1.3: Surface Areas of Objects Made from Right Rectangular Prisms  u01_m20-t32**1.** Each cube has edge length 1 unit. Determine the surface a Extra Practice 3rea of each object.  **u01_m20-t33u01_m20-t31u01_m20-t30a**) **b)** **c)** **d)**  **2.** Each edge of a linking cube is 1 unit long. Build a composite object with 7 linking cubes. Exchange objects with a classmate. Determine the surface area of your classmate’s object. Check each other’s work.  **3.** Determine the surface area of this composite object.  u01_m20-t34  **4.** The local curling rink is shown in the diagram at the right. It is to be painted.  u01_m20-t36**a)** Determine the surface area of the structure.  **b)** The roof, windows, and door are not to be painted. The door is 1 m by 2 m and the window is 4 m by 2 m. Determine the surface area to be painted.  **c)** A can of paint covers 300 m2 and costs $45. Determine the cost of the paint needed. |