**Estimate Volume**

**Estimate the volume.**


   ![Paper Package]

   **Think:** Each package of paper has a volume of 200 cu in. There are 8 packages of paper in the larger box. So, the volume of the large box is about $8 \times 200$, or 1,600 cubic inches.

   Volume of large box: 1,600 cu in.

2. Volume of rice box: 500 cu cm

   ![Rice Box]

   Volume of large box: ____________

3. Volume of tea box: 40 cu in.

   ![Tea Box]

   Volume of large box: ____________


   ![DVD Case]

   Volume of large box: ____________

**Problem Solving \(\text{REAL WORLD}\)**

5. Theo fills a large box with boxes of staples. The volume of each box of staples is 120 cu cm. Estimate the volume of the large box.

   ![Staples]

5. Lisa uses pudding boxes to estimate the volume of the box below. The volume of each pudding box is 150 cu in. Estimate the volume of the large box.

   ![Pudding]

   Volume of large box: ____________
Lesson Check (CC.5.MD.4)

1. Melanie packs boxes of envelopes into a larger box. The volume of each box of envelopes is 1,200 cubic centimeters. Which is the best estimate for the volume of the large box?

   - A 2,400 cu cm
   - B 12,000 cu cm
   - C 20,000 cu cm
   - D 24,000 cu cm

2. Calvin packs boxes of greeting cards into a larger box. The volume of each box of greeting cards is 90 cubic inches. Which is the best estimate for the volume of the large box?

   - A 216 cu in.
   - B 240 cu in.
   - C 2,160 cu in.
   - D 2,400 cu in.

Spiral Review (CC.5.MD.1, CC.5.MD.3a, CC.5.MD.3b, CC.5.MD.4)

3. Rosa has 16 unit cubes. How many different rectangular prisms can she build with the cubes? (Lesson 11.6)

   - A 2
   - B 3
   - C 4
   - D 8

4. Each cube represents 1 cubic inch. What is the volume of the prism? (Lesson 11.7)

   - A 1 cu in.
   - B 4 cu in.
   - C 8 cu in.
   - D 12 cu in.

5. A certain aquarium holds 20 gallons of water. How many quarts of water does the aquarium hold? (Lesson 10.2)

   - A 160 quarts
   - B 80 quarts
   - C 10 quarts
   - D 5 quarts

6. Monique ran in a 5-kilometer race. How many meters did Monique run? (Lesson 10.5)

   - A 50 meters
   - B 500 meters
   - C 5,000 meters
   - D 50,000 meters