

Name _____

Date _____

1. Find various rectangular boxes at your home. Use a ruler to measure the dimensions of each box to the nearest centimeter. Then, calculate the volume of each box. The first one is partially done for you.

Item	Length	Width	Height	Volume
Juice Box	11 cm	2 cm	5 cm	110 cm^3
Cereal Box	20 cm	6 cm	33 cm	3960 cm^3

Additional answers will vary

2. The dimensions of a small juice box are 11 cm by 4 cm by 7 cm. The super-size juice box has the same height of 11 cm but double the volume. Give two sets of the possible dimensions of the super-size juice box and the volume.

$$11 \text{ cm by } 4 \text{ cm by } 7 \text{ cm} = 308 \text{ cm}^3$$

$$11 \text{ cm} \times 8 \text{ cm} \times 7 \text{ cm} = 616 \text{ cm}^3$$

$$11 \text{ cm} \times 4 \text{ cm} \times 14 \text{ cm} = 616 \text{ cm}^3$$