

Name: \_\_\_\_\_

# Introduction to Volume of Rectangular Prisms - Answer Key

Item #1: Caramel Ear Wax Candy

- Volume =  $4 \times 7 \times 9 = 252$  cubic inches
- The item will fit in the shipping box because it is less than 275 cubic inches
- Empty space in box:  $275 - 252 = 23$  cubic inches of extra space

Item #2: Stuffed Roaches

- Volume =  $2 \times 12 \times 3 = 72$  cubic inches
- The item will not fit in the shipping box because it is more than 60 cubic inches
- Empty space in box:  $72 - 60 = 12$  cubic inches too small

Item #3: Worms in Dirt

- Volume =  $6 \times 6 \times 8 = 288$  cubic inches
- The item will not fit in the shipping box because it is more than 250 cubic inches
- Empty space in box:  $288 - 250 = 38$  cubic inches too small

Item #4: Fruity Eyeballs

- Volume =  $7 \times 10 \times 8 = 560$  cubic inches
- The item will fit in the shipping box because it is less than 600 cubic inches
- Empty space in box:  $600 - 560 = 40$  cubic inches extra space

Item #5: Eyeball Cookies

- Volume =  $10 \times 10 \times 10 = 1,000$  cubic inches
- The item will fit in the shipping box because it is less than 1,200 cubic inches
- Empty space in box:  $1,200 - 1,000 = 200$  cubic inches extra space

Item #6: Fingers and Dipping Sauce

- Volume =  $3 \times 4 \times 4 = 48$  cubic inches
- The item will not fit in the shipping box because it is more than 45 cubic inches
- Empty space in box:  $48 - 45 = 3$  cubic inches too small