

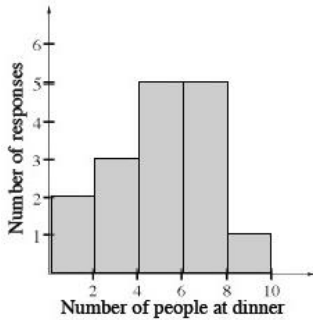
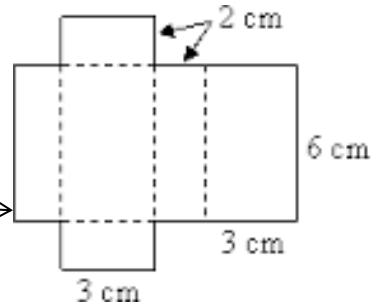
**Math Concepts HW 15 4.28.15**

1) All the sides of this cube are identical. The volume is  $64 \text{ cm}^3$ . Find the height of this cube.



2) Find the surface area of the rectangular prism formed by this net.

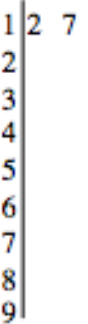
3) Find the volume of the rectangular prism formed by this net.



**Lyn asked some of her classmates how many people are normally at home. She recorded her results in the histogram shown at left.**

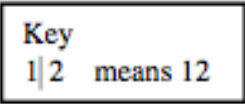
- 4) How many classmates were surveyed?  
 5) How many classmates have eight or nine people at home for dinner?  
 6) Two absent classmates added that they each have 6 people at home for dinner. Make a new histogram to include this data.

7) Copy and complete the stem-and-leaf plot below for the following set of data: 64, 87, 52, 12, 17, 23, 45, 88, 45, 92, 62, 76, 77, 34, and 53.



8) 20% of what number is 15?

9) What percent of 25 is 12?



10) What number is 2% of 150?

11) How many  $\frac{2}{3}$ 's are in 12?

12) There are  $r$  rows of chairs with 18 chairs in each row. Write an expression that shows the number of chairs in total.

13) My Ferrari can travel 500 miles in 6 hours. How far can it travel in 12 hours?

14) Find the unit rate of my Ferrari (unit rate = rate per 1 hour).

15) Graph and connect in order: A = (4, 0), B = (5, 2), C = (-2, 2), D = (-3, 0).

16) Find the area of your graphed figure.      17) Find the length of segment BC.

18) Find the distance between points (1, 5) and (1, -9).

