Chapter 1-1 Notes

Problem Solving Plan

1) Understand - read the problem; ask questions like "what do I know?" and "what do I need to find out?"; try to estimate

2) Plan - determine a strategy; do I need to define a variable; what operations are needed; can I write an expression or an equation; should I draw a picture, diagram, and/or graph

3) Solve - use your plan and math skills

4) Check - is the answer reasonable; does it make sense; is it close to my estimate

Example 1: Based on the data, about how many times more students sign up for volleyball than jazz band?

Hint: use rounding to make the calculations easier.

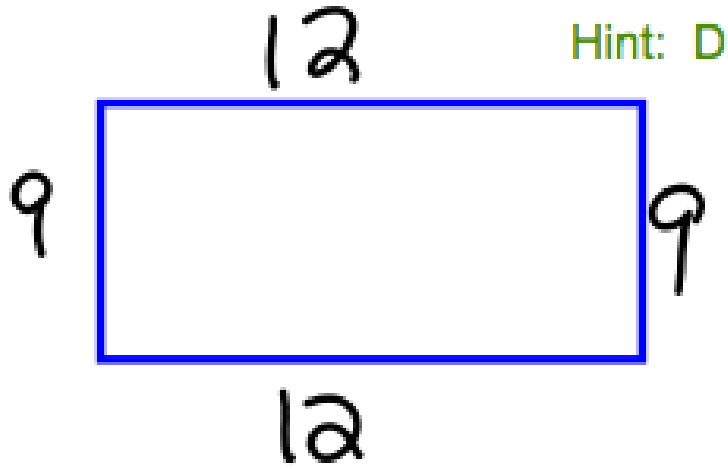
Activity	Number of Students
cheerleading	56
jazz band	16
photography	28
volleyball	87

VB 90

JB 15

$90 \div 15 = 6$ times

Example 2: A rectangular garden is 12 meters long and 9 meters wide. A border is sold in 1.5-meter sections. How many sections are needed to surround the garden?



Hint: Draw a picture and label the sides.

$12+12+9+9=42$ meters

$$
\begin{array}{r}
28. \\
15\overline{)420} \\
-30\downarrow \\
\hline
120 \\
-120 \\
\hline
0
\end{array}
$$

28 sections to buy