RATIOS

Name: _____ Date: _____

INSTRUCTIONS: Answer ALL questions in the spaces provided.

PART I: Write each ratio in simplest form.

a. 12 : 20 = _____:_____ b. 18 : 45 = _____:_____ c. 21 : 49 = ____:_____

d. 33 : 77 = _____:_____ e. 24 : 32 = _____:_____ i. 60 : 100 = ____:_____

j. 4 : 10 : 18 = ____:____:____ k. 48 : 24 : 32 = ____:____:____ l. 7 : 56 : 49 = ___:____:____

PART II: PROBLEM SOLVING

- For every 1 cup of honey, you need _____ cups of lemon juice.
- For every 1 cup of honey, you need _____ cups of water.
- For every 2 cups of lemon juice, you need _____ cups of water.

Shawn is making 2 jugs. He has 2 cups of honey.

(a) How many cups of lemon juice would he need to make the drink? ____

(b) How many cups of water would he need to make the drink? ____

1. Write the answers in ratio form to the following. Simplify where possible.

a. There are 15 Math books and 60 English books on the shelf. Write the ratio of:

Math to English books is _____:_____ (Original Ratio) = _____:_____ (Simplified Ratio)

English to total books on the shelf is _____:_____(Original Ratio) = _____:_____ (Simplified Ratio)

Math books to total books on the shelf is _____:_____(Original Ratio) = _____:_____(Simplified Ratio)

b. Doris Johnson Senior High school has a population of 800 students. 350 students are boys.

(a) How many girls are in the school? _____

(b)Write the ratio of boys to girls. Give your final answer in simplest form.

_____:_____ (Original Ratio) = _____:_____ (Simplified Ratio)

c. In a survey of 25 students, 12 said they liked vanilla ice cream, 7 liked chocolate ice cream and the rest said they liked strawberry ice cream.

(a) how many students chose strawberry ice cream? _____

(b) write as a ratio, **in simplest form**:

(i) the number of **students who liked chocolate** to the number of **students who liked vanilla**

_____:_____

(ii) the number of **students who liked strawberry** to the number of **students who liked vanilla** to the **total number of students** ____:____:____

LIVEWORKSHEETS