

Ratios, Rates, Percents, and Proportion

Mr. Netkovich took a survey of all his classes on what their favorite subjects are. He asked 100 students in all.

Subjects	Totals
Math	25
LA	30
Science	25
Social Studies	20
Total	100

1. Write mathematical comparison statements about student choices of subjects.

a. Write one statement using RATIOS comparing Math and Social Studies.

Ratio of Math to Social is 5 to 4

b. Write one statement using PERCENTS comparing LA and Science.

30% of students like LA, compared to 25% who prefer Science

c. Write one statement using FRACTIONS comparing Math to Science.

$\frac{1}{4}$ of students like Math, $\frac{1}{4}$ like Science

d. Write one statement using DIFFERENCES comparing LA and Social Studies.

10 more students like LA compared to Social

2. a. Write a RATIO to describe the number of students who prefer Science to Social Studies.

The ratio is 5 to 1

b. Write an equivalent form of the ratio (scaling up or down).

10 : 2 or 15 : 3 or 20 : 4 etc.