Name: _____   Date: _____

Prerequisite Skills

Fractions, Decimals, and Percents

1. Express each fraction as a decimal without the use of a calculator.

a) $\dfrac{3}{4}$ **b)** $\dfrac{7}{8}$

c) $\dfrac{4}{5}$ **d)** $\dfrac{7}{20}$

2. Use a calculator to express each fraction as a decimal. Round to four decimal places.

a) $\dfrac{19}{30}$ **b)** $\dfrac{23}{49}$

c) $\dfrac{55}{90}$ **d)** $\dfrac{11}{60}$

3. Express each percent or decimal as a fraction in lowest terms.

a) 0.65   **b)** 82%
c) 14%   **d)** 0.25
e) 0.40   **f)** 35%

4. Evaluate. Do not use a calculator. Express answers as fractions in lowest terms.

a) $3 - \dfrac{2}{7}$

b) $\dfrac{3}{4} - \dfrac{2}{3}$

c) 60% of $\dfrac{2}{3}$

d) $\dfrac{1}{4} \times \dfrac{4}{7} \times \dfrac{7}{3}$

Interpreting Data

5. Students in a mathematics class pick a card from a standard deck of 52 cards, record the suit, and return the card to the deck. The results are shown.

Result	Frequency
hearts	5
diamonds	9
spades	8
clubs	6

a) How many students are in the class?
b) What fraction of the students chose a red card?
c) Does your result for part b) make sense? Explain.

6. The bar graph shows the music preference of a group of students.
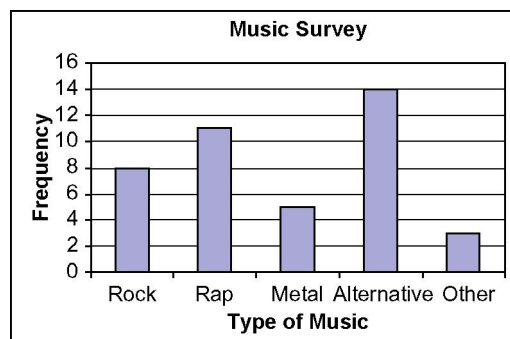
a) How many students were surveyed?
b) What is the most popular type of music in this group?
c) What percent of students surveyed chose the most popular type of music?