

Probability Warm-Up

Probability deals a lot with percentages, fractions, and interpreting data. To help prepare for this unit, complete each of the following questions and then complete the self-assessment on the back.

1. Express each fraction as a decimal, rounded to the nearest thousandth.

a) $\frac{3}{4}$

b) $\frac{4}{5}$

c) $\frac{7}{20}$

d) $\frac{19}{30}$

e) $\frac{55}{80}$

f) $\frac{23}{49}$

2. Express each of the following as a fraction in lowest terms.

a) 0.65

b) 82%

c) 14%

d) 0.25

e) 0.4

f) 35%

3. Evaluate and express as a fraction in lowest terms.

a) $3 - \frac{2}{5}$

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

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

4. 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.

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

Result	Frequency
hearts	5
diamonds	9
spades	8
clubs	6

5. The bar graph shows the music preference of a group of students.

- How many students were surveyed?
- What is the most popular type of music in this group?
- What percent of students surveyed chose the most popular type of music?

