

Name _____ Date _____ Period _____

Directions: Complete #1-3 without using a calculator. Simplify each expression

1) $\frac{2}{3} + \frac{4}{5}$

2) $\frac{7}{8} - \frac{1}{6}$

3) $\frac{2}{9} + \frac{12}{15} - \frac{3}{5}$

Solve each proportion

4) $\frac{5}{x} = \frac{14}{350}$

5) $\frac{x}{12} = \frac{4}{16}$

6) $\frac{9}{22} = \frac{63}{x}$

Read the scenario below.

You are conducting a survey at your school to see what everyone's favorite subject is. You take a random sample of 50 students in your school. Eighteen students say that math is a favorite subject; thirteen students say that psychology is their favorite subject; and eight say art is their favorite subject. Assume there are 2700 students in the school.

7. Based on your sample, how many students would you expect to say math is their favorite subject?

8. Based on your sample, how many students would you expect to say that English is their favorite subject?

Rate yourself (M,A,T, or H) _____