

Math 221: Basic Statistics (Practice) Quiz #1

Week #2

Name: _____

SHOW ALL YOUR WORK FOR FULL CREDIT!

Without the aid of a calculator, simplify the following expressions to a single fraction in lowest terms. In addition, convert each fraction to a percentage rounded to the nearest tenth of a percent, e.g. $\frac{1}{2} + \frac{1}{8} = \frac{5}{8} = 62.5\%$.

(1) $1 - \frac{3}{10}$

(2) $2 + \frac{3}{25}$

(3) $\frac{19}{20} - \frac{3}{50}$

(4) $\frac{17}{30} + \frac{1}{6}$

(5) $\frac{2}{3} \cdot \frac{5}{4}$

(6) $\frac{2}{3} \div \frac{5}{6}$

(7) $\frac{3}{8} + \frac{1}{20} + \frac{1}{3}$

Math 221: Basic Statistics (Practice) Quiz #1 Answers

Week #2

(1) $1 - \frac{3}{10} = \frac{10}{10} - \frac{3}{10} = \frac{7}{10} = 70\%$

(2) $2 + \frac{3}{25} = \frac{50}{25} + \frac{3}{25} = \frac{53}{25} = 212\%$

(3) $\frac{19}{20} - \frac{3}{50} = \frac{95}{100} - \frac{6}{100} = \frac{89}{100} = 89\%$

(4) $\frac{17}{30} + \frac{1}{6} = \frac{17}{30} + \frac{5}{30} = \frac{22}{30} = 73.3\%$

(5) $\frac{2}{3} \cdot \frac{5}{4} = \frac{5}{6} = 83.3\%$

(6) $\frac{2}{3} \div \frac{5}{6} = \frac{2}{3} \cdot \frac{6}{5} = \frac{4}{5} = 80\%$

(7) $\frac{3}{8} + \frac{1}{20} + \frac{1}{3} = \frac{45}{120} + \frac{6}{120} + \frac{40}{120} = \frac{91}{120} = 75.8\%$