

University of South Carolina
Math 221: Math for Elementary Educators
Instructor: Austin Mohr
Section 001
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Quiz 4

1. Draw a picture to represent each of the following. Where necessary, show how you break down one fraction into smaller pieces (such as when you find a common denominator).

a. $\frac{1}{2} + \frac{2}{3}$

b. $\frac{2}{3} \cdot \frac{4}{5}$

c. $2\frac{1}{3} \div \frac{2}{3}$ (Hint: Think of this as having $2\frac{1}{3}$ yards of fabric and each shirt requires $\frac{2}{3}$ of a yard to make.)

2. Recall that the Fundamental Theorem of Arithmetic states that every number can be factored uniquely into primes. Use this fact to reduce $\frac{126}{420}$ as much as possible. (Hint: Factor the numerator and denominator into primes.)