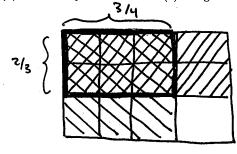


Show all work clearly and in order.

1. Simplify
$$\frac{4}{5} - \frac{1}{4} = \frac{4.4}{5.4} - \frac{1.5}{4.5} = \frac{16}{20} - \frac{5}{20} = \boxed{\frac{11}{20}}$$

2. (a) Simplify
$$\frac{2}{3} \times \frac{3}{4} = \frac{2 \cdot 3}{3 \cdot 4} = \frac{6}{12} = \boxed{\frac{1}{2}}$$

(b) Illustrate your solution to (a) using an rectangular array model.



so
$$\frac{6}{12} = \boxed{\frac{1}{2}}$$
 is the answer.

3. Simplify
$$\frac{4}{5} \div \frac{1}{4} = \frac{4}{5} \times \frac{4}{1} = \boxed{\frac{16}{5}}$$
 ar $\boxed{\frac{3\frac{1}{5}}{5}}$

4. Simplify
$$\frac{2^2}{3 \cdot 5^2} \div \frac{7^2 \cdot 2^3}{5 \cdot 2} = \frac{2^2}{3 \cdot 5^2} \cdot \frac{5 \cdot 2}{7^2 \cdot 2^3} = \frac{\cancel{2}^3 \cdot \cancel{5}}{\cancel{2}^3 \cdot \cancel{5}^2 \cdot \cancel{7}^2} = \boxed{\frac{1}{3 \cdot 5 \cdot \cancel{7}^2}} = \boxed{\frac{1}{3 \cdot 5 \cdot \cancel{7}^2}} = \boxed{\frac{1}{3 \cdot 5 \cdot \cancel{7}^2}}$$