Fraction practice and review

Must-know problems that require explanations and representations:

1. Explaining your representation of a fraction (problem from test 1 practice): **Show** and **explain** how to draw  on a number line (using size and number of unit fractions concepts)

2. Explaining with a diagram what a common denominator is, and how to find equivalent fractions with a common denominator (problem from test 1 practice, edited for clarity): **Show** and **explain** how to use a diagram to find equivalent fractions with a common denominator for 4/5 and 3/4. **Show** and **explain** how to use the diagram to figure out the number multiplications that find the equivalent fractions with a common denominator.

3. Multiplying proper fractions (problem from test 1 practice, edited slightly): a. **Explain** what  means.

b. **Show** and **explain** how to make a diagram to represent  using the representation you explained in part a.

c. **Show** and **explain** how to get the usual numerical multiplication of fractions with numbers using your diagram.

4. Know how to model a problem involving two kinds of units (multiplication or division)

Make a diagram that shows the relationships in each of these word problems, and use the diagram to solve the problem. (specific problems from the March 10 practice problems):

1. a. A bottle has 2/3 of a quart of juice in it. How much juice is in 2 1/5 bottles?
2. It takes 3/5 ounce of dye to dye 1 yard of fabric. I have 2 1/2 ounces of dye. How many yards of fabric can I dye?
3. I have 2 1/4 pounds of apples. That’s enough to make 1 3/5 jars of applesauce. How many apples do I need for 1 jar of applesauce?

5. Identify a fraction multiplication problem from a rectangular diagram. In each of these rectangular diagrams, the whole is shown by a bold box, and the product is shown by a shaded rectangle. Write the multiplication sentence and the product (area of the shaded rectangle as a fraction of the area of the bold box).

a. b. c.

  