Multiplying Fractions

1. Which multiplication problem does the model represent?

1	1
$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$	$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

   a. $\frac{1}{8}$ x 2

   b. $\frac{7}{8}$ x 2

   c. $\frac{1}{2}$ x 4
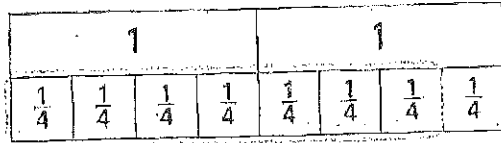
   d. $\frac{1}{4}$ x 8

2. Julie is completing a 4-mile run in cross country. Every $\frac{1}{10}$ mile is marked along the route. For each mile, she runs $\frac{7}{10}$ mile and walks $\frac{3}{10}$ mile. How many miles does Julie run?

3. Blaire brought 3 loaves of cornbread to a football party. $\frac{5}{12}$ of each loaf was eaten. If Blaire gave 1 whole loaf of the leftover bread to the party hosts, what part of a loaf did she have left to take home?

   a. $\frac{3}{4}$

   b. $\frac{1}{4}$

   c. $\frac{1}{2}$

   d. $\frac{7}{12}$

4. Which multiplication problem does the model represent?
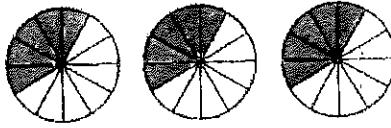
    a. $\frac{5}{12} \times 3$

    b. $\frac{7}{12} \times 3$

    c. $\frac{3}{12} \times 5$

    d. $\frac{1}{2} \times 3$

5. Jenny's recipe makes 2 dozen brownies. Her recipe calls for $\frac{7}{8}$ cup of vegetable oil. How much oil will Jenny need to make 6 dozen brownies?

6. Erin practiced for her piano recital $\frac{3}{4}$ hour every day last week. How many hours did Erin practice last week?

    a. $3\frac{3}{4}$ hours

    b. 7 hours

    c. $5\frac{1}{4}$ hours

    d. $2\frac{1}{2}$ hours

7. Which does not have the same product as $4 \times \frac{5}{9}$?

    a. $4 \times \frac{9}{5}$

    b. $5 \times \frac{4}{9}$

    c. $2 \times \frac{10}{9}$

    d. $10 \times \frac{2}{9}$

8. Charlotte's class has 21 students. Charlotte rides the bus home with $\frac{2}{3}$ of the students in her class. How many students in Charlotte's class do not ride the bus home with her?
    a. 14
    b. 16
    c. 7
    d. 6

9. Stephanie practice volleyball for 5 hours each week. Her sister practices $\frac{5}{6}$ the amount that Stephanie practices. How many hours does Stephanie's sister practice volleyball in one week?
    a. $3\frac{1}{3}$ hours
    b. $4\frac{1}{6}$ hours
    c. $5\frac{1}{6}$ hours
    d. 4 hours

10. Rosie bought a dozen eggs. She used $\frac{2}{3}$ of the eggs to bake a cake and $\frac{1}{4}$ of the eggs to make brownies. How many eggs does Rosie have left?