Do each exercise below.

To Multiply Fractions, multiple the numerator (top number) by the other numerator (top number) and the denominator (bottom number) by the other denominator (bottom number)

• If one of the fractions is a mixed number (e.g., 1 1/2), change it first to a fraction (e.g., 1 $\frac{1}{2}$ = 3/2)

To Divide Fractions, multiple by the inverse of other fraction. For example $1/2 \div 2/3$ would be solved by multiplying by the inverse of 2/3

If one of the fractions is a mixed number (e.g., 1 1/2), change it first to a fraction (e.g., 1 ½ = 3/2)

1.
$$2/3 \times 1/5 = \frac{2 \times 1}{3 \times 5} = \frac{2}{15}$$
 YES NO

2.
$$3/4 \times 7/12 = \frac{3 \times 7}{4 \times 12} = \frac{7}{16}$$
 YES NO

3.
$$3/8 \text{ of } 4/9 = \frac{3 \times 4}{8 \times 9} = 3\frac{1}{3} \text{ YES} \quad NO$$

4.
$$7/10 \div 1/2 = \frac{7 \times 2}{10 \times 1} = \frac{3}{5}$$
 YES NO

5.
$$5/12 \div 5/8 = \frac{5 \times 8}{12 \times 5} = \frac{4}{5}$$
 YES NO

6.
$$9/20 \div 4/15 = \frac{9 \times 15}{20 \times 4} = 1\frac{11}{16}$$
 YES NO

7.
$$1\frac{1}{3} \times 2\frac{1}{2} = \frac{4 \times 5}{3 \times 2} = \frac{3}{3} \text{ YES}$$
 NO

8.
$$5 \% X 3 1/7 = \frac{21 \times 22}{4 \times 7} = 161/2 YES$$
 NO

16. Farmer Brown can harvest 2 1/3 acres of corn in 1 day. How many acres of corn can he harvest in 10 1/2 days?

9.
$$17/8 \times 7/10 = \frac{15 \times 7}{8 \times 10} = 5 \frac{1}{4} \text{ YES}$$
 NO

10.
$$4 \frac{1}{2} \div 1 \frac{4}{5} = \frac{9 \times 5}{2 \times 9} = 2 \frac{7}{8} YES$$
 NO

11.
$$25/8 \div 33/4 = 21 \times 4 = 21 \times 5$$
 NO 8 X 15 30 NO

12.
$$73/10 \div 5 = \frac{73 \times 1}{10 \times 5} = 195_0 \text{ YES}$$
 NO

13.
$$12 \div 3 \frac{1}{2} = \frac{2 \times 2}{12} = \frac{4}{3} \frac{3}{7}$$
 YES NO

14. 6
$$1/4 \div 5/6 = \frac{25 \times 6}{4 \times 5} = 7 \frac{1}{3} \text{ YES}$$
 NO

15.
$$2/3 \times 2/3 \times 2/3 = \frac{2 \times 2 \times 2}{3 \times 3 \times 3} = \frac{9}{2.7} YES$$
 NO

17. Famer Brown can harvest 2 1/3 acres of corn in 1 day. How many days will it take him to harvest 10 1/2 acres of corn? _____ days