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., $11 / 2$ ), change it first to a fraction (e.g., $11 / 2=3 / 2$ )

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., $11 / 2$ ), change it first to a fraction (e.g., $1 \frac{1}{2}=3 / 2$ )

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. $3 / 8$ of $4 / 9=\frac{3 \times 4}{8 \times 9}=31 / 3$ YES NO
4. $7 / 10 \div 1 / 2=\frac{7 \times 2}{10 \times 1}=3 / 5$ 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. $11 / 3 \times 21 / 2=\frac{4 \times 5}{3 \times 2}=31 / 3$ YES NO
8. $51 / 4 \times 31 / 7=\frac{21 \times 22}{4 \times 7}=161 / 2$ YES NO $4 \times 7$
9. Farmer Brown can harvest $21 / 3$ acres of corn in 1 day. How many acres of corn can he harvest in 10 1/2 days?

1 day=2 1/3 acres
$101 / 2$ days $=$ $\qquad$ acres
$101 / 2 \times 21 / 3=\frac{21}{2 \times 3}=24 \frac{1}{2 \times 3}$ YES NO
10. $41 / 2 \div 14 / 5=\frac{9 \times 5}{2 \times 9}=27 / 8$ YES NO
11. $25 / 8 \div 33 / 4=\frac{21 \times 4}{8 \times 15}=\frac{21}{30}$ YES NO
12. $73 / 10 \div 5=\frac{73 \times 1}{10 \times 5}=1 \frac{19}{50}$ YES NO
13. $12 \div 31 / 2=\frac{12 \times 2}{1 \times 7}=43 / 7$ YES NO
14. $61 / 4 \div 5 / 6=\frac{25 \times 6}{4 \times 5}=71 / 3$ YES NO
15. $2 / 3 \times 2 / 3 \times 2 / 3=\frac{2 \times 2 \times 2}{3 \times 3 \times 3}=\frac{8}{27}$ YES NO
17. Famer Brown can harvest $21 / 3$ acres of corn in 1 day. How many days will it take him to harvest $101 / 2$ acres of corn? $\qquad$ days
$21 / 3$ acres = 1 day
$101 / 2$ acres $=$ $\qquad$
$101 / 2 \div 21 / 3=\frac{21 \times 3}{2 \times 7}=61 / 2$ YES NO

