

ELEMENTARY ALGEBRA
 UNIT 2 - FRACTIONS
 2.1 - MULTIPLICATION/DIVISION

NAME _____
 PERIOD _____
 ASSIGNMENT _____

Multiply:

{ See if some number in the numerator can be divided by the same factor as a number in the denominator

*1. $\frac{2}{3} \cdot \frac{15}{16}$

$\frac{2}{\cancel{3}} \cdot \frac{5}{16}$
 $\frac{1}{1} \cdot \frac{5}{16}$

{ Divide numerator & denominator by 3

$\frac{\cancel{2}}{1} \cdot \frac{5}{\cancel{16}}$
 $\frac{1}{1} \cdot \frac{5}{8}$

{ Divide numerator & denominator by 2

$\frac{1}{1} \cdot \frac{5}{8}$

{ Multiply numerators and denominators

$\frac{5}{8}$

2. $\frac{3}{5} \cdot \frac{15}{16}$

3. $\frac{2}{7} \cdot \frac{21}{24}$

4. $\frac{4}{9} \cdot \frac{15}{16}$

5. $\frac{3}{5} \cdot \frac{6}{5}$

6. $\frac{3}{5} \cdot \frac{5}{6}$

7. $\frac{24}{45} \cdot \frac{15}{16}$

Simplify these:

{ Invert a fraction that follows a division sign (\div), then multiply

*8. $\frac{2}{3} \div \frac{8}{19}$
 $\frac{1}{\cancel{2}} \cdot \frac{19}{\cancel{8}}$
 $\frac{1}{3} \cdot \frac{19}{4}$

$\frac{19}{12}$

{ Leave as improper fraction

9. $\frac{5}{3} \div \frac{5}{9}$

10. $\frac{2}{5} \div \frac{5}{8}$

11. $\frac{4}{18} \div \frac{8}{12}$

12. $\frac{3}{5} \div \frac{6}{5}$

13. $\frac{3}{5} \div \frac{5}{6}$

14. $\frac{2}{7} \div \frac{24}{21}$

15. $\frac{4}{9} \div \frac{16}{15}$

16. $\frac{24}{45} \div \frac{36}{35}$

2. $\frac{9}{16}$

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

4. $\frac{5}{12}$

5. $\frac{18}{25}$

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

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

9. 3

10. $\frac{16}{25}$

11. $\frac{1}{3}$

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

13. $\frac{18}{25}$

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

15. $\frac{5}{12}$

16. $\frac{14}{27}$