ANSWERS - PAGE 1

HELPFUL EXAMPLES

A.
$$\frac{1}{4} \times 12 = 12 \div 4 = 3$$

B. $\frac{3}{5} \times \frac{3}{4} = \frac{3}{5} \xrightarrow{\times} \frac{3}{4} = \frac{9}{20}$
C. $\frac{2}{9} \times 18 = \frac{2}{9} \xrightarrow{\times} \frac{18}{1} = \frac{36}{9}$
IF THE NUMERATOR (TOP NUMBER) IS ONE
YOU CAN DIVIDE THE WHOLE NUMBER (12)
BY THE DENOMINATOR (BOTTOM NUMBER).
A SIMPLE WAY TO MULTIPLY FRACTIONS IS
TO MULTIPLY STRAIGHT ACROSS. MULTIPLY
THE TWO NUMERATORS AND DENOMINATORS.
BEFORE MULTIPLYING STRAIGHT ACROSS YOU
NEED TO CHANGE THE 18 INTO A FRACTION. DO
YOU SEE HOW WE PUT THE 18 OVER 1? 18 = $\frac{18}{1}$.
ON THIS PROBLEM, YOU END UP
WITH AN IMPROPER FRACTION.
IT NEEDS TO BE SIMPLIFIED.
 $\frac{36}{9} \div 9 = \frac{4}{1} = 4$

NOW YOUR TURN. USE THE EXAMPLES ABOVE TO HELP SOLVE THESE PROBLEMS. DON'T FORGET TO SIMPLIFY.

1.
$$\frac{3}{5} \xrightarrow{\times} \frac{2}{3} = \frac{2}{5}$$
 2. $\frac{1}{2} \xrightarrow{\times} \frac{7}{8} = \frac{7}{16}$ 3. $\frac{2}{3} \xrightarrow{\times} \frac{1}{4} = \frac{1}{6}$
4. $15 \times \frac{1}{3} = 5$ 5. $\frac{2}{5} \times \frac{4}{5} = \frac{8}{25}$ 6. $\frac{2}{3} \times 6 = 4$
7. $\frac{2}{15} \times \frac{1}{2} = \frac{1}{15}$ 8. $16 \times \frac{2}{9} = 3\frac{5}{9}$ 9. $\frac{2}{3} \times \frac{3}{4} = \frac{1}{2}$
10. $\frac{5}{7} \times \frac{6}{12} = \frac{5}{14}$ 11. $48 \times \frac{1}{8} = 6$ 12. $\frac{7}{12} \times 4 = 2\frac{1}{3}$
1 2 2 8 8 3 6 5 4 5

13.
$$\frac{1}{9} \times \frac{2}{7} = \frac{2}{63}$$
 14. $\frac{8}{11} \times \frac{3}{4} = \frac{6}{11}$ 15. $\frac{5}{8} \times \frac{4}{9} = \frac{1}{11}$

16.
$$\frac{3}{14} \times 7 = 1\frac{1}{2}$$
 17. $\frac{1}{4} \times \frac{6}{13} = \frac{3}{26}$ 18. $\frac{5}{6} \times \frac{3}{10} = \frac{1}{4}$

MULTIPLYING FRACTIONS - B

MORE HELPFUL EXAMPLES

	MORE	E HELPFUL EXAMPLES									
	D.	$\frac{3}{10}$ x -	$\frac{5}{6} = \frac{15}{60} \div$	15 15 =	<u>1</u> 4	BELOW IS DONE A S	The Same Lightly D	E PROBLE DIFFEREN	EM, BUT T WAY.		
	AS LON	AS LONG AS YOU DO THE SAME TO THE TOP AND BOTTOM YOU CAN SIMPLIFY BEFORE MULTIPLYING.									
	E.	<u>-3</u> 10 x -	$\frac{5}{6} = \frac{\begin{pmatrix} 1 \\ 3 \\ 3 \\ 10 \\ x \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\frac{5}{2}^{6} \div 3$	= <u>1</u> 1(2) DIVIDE	$\begin{array}{c} 1\\ x & 5 \end{array}$	÷5 - =	<u>1 x</u> 2 x	1 2 =	$\frac{1}{4}$	1
	MULTIPLY. WRITE IN SIMPLEST FORM.								IT SAVES TIME AND	YOU A LOT OF EFFORT.	
	1.	$\frac{9^{+9}}{20_{+5}}^{0}$ x -	$\frac{5^{+5}}{9_{+9}}^{=} \frac{1}{4}$	2.	<u>3</u> 11 x	<u>11</u> 13 =	<u>3</u> 13	3.	$\frac{1}{21}$ x ·	$\frac{3}{4} = \frac{1}{28}$	3
1 6	4.	$\frac{1}{3}$ x -	$\frac{5}{6} = \frac{5}{18}$	5.	10 x	<u>4</u> 18 =	2 <u>2</u> 9	6.	<u>6</u> 7 x -	$\frac{2}{3} = \frac{4}{7}$	_
4	7.	30 x -	$\frac{1}{5} = 6$	8.	$\frac{4}{12}$ x	$\frac{3}{13} =$	<u>1</u> 13	9.	2 5 x	$\frac{15}{22} = \frac{3}{11}$	_ I
1 2	10.	<u>-3</u> x -	$\frac{5}{10} = \frac{1}{6}$	11.	$\frac{2}{3}$ x	7 =	$4\frac{2}{3}$	12.	$\frac{4}{7}$ x ·	$\frac{6}{16} = \frac{3}{14}$	_ 1
$\frac{1}{3}$	13.	$\frac{4}{11} \times \frac{4}{3}$	$\frac{44}{50} = \frac{8}{25}$	14.	$\frac{2}{3}$ x	<u>12</u> 15 =	<u>8</u> 15	15.	<u>5</u> x -	$\frac{9}{14} = \frac{5}{14}$	_ 1
<u>5</u> 18	16.	<u>5</u> 14 x	$8 = 2\frac{6}{7}$	17.	26 x	$\frac{3}{4}$ =	39 <u>1</u>	18.	<u>8</u> 16 x ·	$\frac{11}{13} = \frac{11}{26}$	<u> </u> }
1 4	19.	$\frac{3}{5} \times \frac{3}{5}$	$\frac{10}{18} = \frac{1}{3}$	20.	$\frac{4}{7}$ x	<u>7</u> 15 =	<u>4</u> 15	21.	<u>8</u> 13 x ·	$\frac{17}{24} = \frac{17}{39}$	7