

Name: _____

Date: _____

Math 8 HW Section 2.3 Multiplying Mixed Fractions

1. Convert each of the following to improper fractions

a) $2\frac{1}{4}$	b) $3\frac{3}{5}$	c) $6\frac{5}{7}$	d) $-3\frac{1}{6}$	e) $4\frac{7}{8}$	f) $7\frac{3}{5}$
g) $-4\frac{3}{11}$	h) $-3\frac{6}{13}$	i) $3\frac{2}{20}$	j) $3\frac{8}{16}$	k) $3\frac{8}{12}$	l) $-3\frac{4}{15}$

2. Draw a model to determine each product:

a) $1\frac{1}{2} \times 2\frac{3}{4}$ <table border="1" style="margin: 10px auto;"> <tr> <td>1</td> <td>1</td> <td>$\frac{3}{4}$</td> </tr> <tr> <td>0.5</td> <td>0.5</td> <td>$\frac{3}{8}$</td> </tr> </table>	1	1	$\frac{3}{4}$	0.5	0.5	$\frac{3}{8}$	b) $3\frac{2}{3} \times 1\frac{4}{5}$	c) $2\frac{1}{3} \times 3\frac{1}{6}$
1	1	$\frac{3}{4}$						
0.5	0.5	$\frac{3}{8}$						

3. Multiply each of the following or solve for the missing value in the box:

a) $1\frac{2}{3} \times 2\frac{1}{10}$	b) $3\frac{2}{3} \times 2\frac{1}{22}$	c) $1\frac{2}{5} \times 3\frac{3}{4}$	d) $2\frac{4}{7} \times 2\frac{4}{15}$
e) $3\frac{3}{6} \times 3\frac{3}{14}$	f) $5\frac{1}{4} \times 7\frac{1}{3}$	g) $2\frac{3}{4} \times 1\frac{1}{3} \times 3\frac{1}{11}$	h) $4\frac{2}{5} \times 5\frac{1}{3} \times 3\frac{1}{8}$
i) $1\frac{2}{3} \times \square = \frac{3}{4}$	j) $8\frac{2}{3} \times \square = 39$	k) $3\frac{3}{4} \times \square = 3\frac{1}{2}$	l) $2\frac{1}{3} \times \square = 4\frac{6}{7}$

4. A plant grew $1\frac{1}{8}$ of an inch every day. How many inches will it grow in $10\frac{1}{2}$ days?
5. David ran $2\frac{1}{3}$ laps around a track in 1 hour. How many laps can he run in $3.75h$ if he maintained the same speed?
6. Mark makes $\$20\frac{3}{4}$ an hour at his job. He works $8\frac{1}{3}$ hours every day. If Mark can only save $\frac{3}{4}$ of the money he makes, how many days will he need to save \$2000?
7. Jason needs $2\frac{1}{2}$ tanks of gas to drive from Vancouver to Portland. Each tank of gas will cost him $\$ \frac{98}{3}$. How much will it cost him to drive from Vancouver to Portland?
8. The length of a box is increased by $1\frac{2}{3}$ times its original length and the width is increased by $2\frac{1}{5}$ times its original width. If the original area of the box is 300m^2 , then what is the area of the new box?
9. Challenge: Sharon has some money in her pocket. Her friend Wendy has $1\frac{1}{2}$ times as much as Sharon. Another friend Chelsea has $1\frac{2}{3}$ times as much money as Wendy. Altogether they have \$200. How much money does Sharon have?