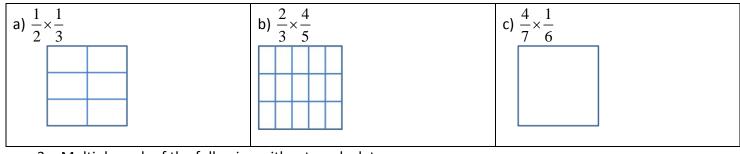Name:_____   Date:_____

Math 8 HW Section 2.2 Multiplying Proper Fractions

1. Simplify each of the fractions to lowest terms:

a) $\dfrac{8}{12}$	b) $\dfrac{15}{25}$	c) $\dfrac{24}{36}$	d) $\dfrac{36}{63}$	e) $\dfrac{56}{49}$	f) $\dfrac{48}{84}$
g) $\dfrac{65}{117}$	h) $\dfrac{150}{105}$	i) $\dfrac{224}{36}$	j) $\dfrac{24}{96}$	k) $\dfrac{81}{135}$	L) $\dfrac{720}{1080}$

2. Multiply each of the following by using the area model:

a) $\dfrac{1}{2} \times \dfrac{1}{3}$	b) $\dfrac{2}{3} \times \dfrac{4}{5}$	c) $\dfrac{4}{7} \times \dfrac{1}{6}$

3. Multiply each of the following without a calculator:

a) $\dfrac{2}{3} \times \dfrac{4}{5}$	b) $\dfrac{4}{6} \times \dfrac{3}{4}$	c) $\dfrac{12}{7} \times \dfrac{14}{9}$	d) $\dfrac{25}{24} \times \dfrac{16}{15}$
e) $\dfrac{12}{18} \times \dfrac{27}{15}$	f) $\dfrac{45}{39} \times \dfrac{26}{27}$	g) $\dfrac{55}{56} \times \dfrac{48}{45}$	h) $\dfrac{12}{28} \times \dfrac{15}{8} \times \dfrac{2}{9}$
i) $\dfrac{77}{14} \times \dfrac{45}{11} \times \dfrac{12}{81}$	j) $\dfrac{26}{24} \times \dfrac{12}{14} \times \dfrac{56}{65}$	k) $\dfrac{25}{21} \times \dfrac{54}{11} \times \dfrac{28}{15} \times \dfrac{22}{18}$	l) $\dfrac{14}{27} \times \dfrac{18}{40} \times \dfrac{36}{15} \times \dfrac{32}{21}$

4. Johnny's gas tank is 8/15 full. He uses ¾ of the gas he has to drive to work. If his car can hold 90L of gas, how much gas did he use to get to work?

5. 4/5 of the students are passing in Science class and 1/3 of these students are getting A's. What fractions of students are getting A's?

6. In Mr. T's class of 60 students, a quarter of them have blonde hair and three-fifths of them are boys. How many students in Mr. T's class are boys with blonde hair?

7. Albert spent 1/5 of his savings on a new computer. Later that week, he spent ½ of the rest on another desktop computer. What fraction of his original savings did he have left?

8. Jenny has a purse of coins. 3/7 of the coins are pennies. 1/8 of the other coins are quarters. If there are 15quarters, how many coins pennies does she have?

9. Shirley bought a bunch of donuts and left it in the common room. Mike arrives and eats 1/3 of all the donuts. Then Eva arrives and eats ¼ of what remained. If there was 3 donuts left, how many donuts did Shirley buy?