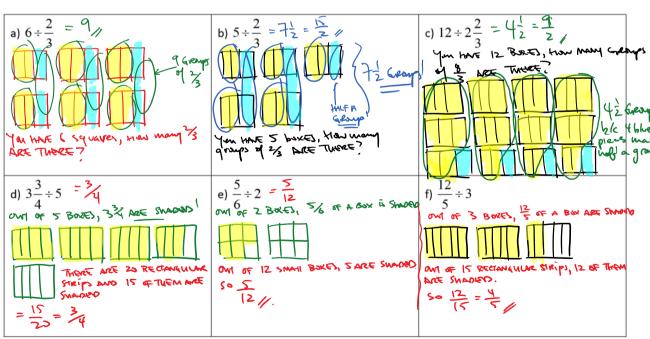
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## Math 8 Section 2.4 Dividing Fractions and Integers Using Manipulatives:

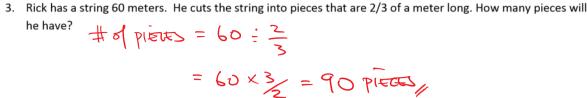
## 1. Divide the following fractions:

a) $8 \div \frac{4}{5}$ $\frac{1}{8} \times \frac{5}{4}$ $= 10$	b) $6 \div \frac{2}{3}$ $3 \times \times \frac{3}{2}$ $= 9$	c) $20 \div \frac{35}{3}$ $24 \times \frac{3}{3}$ $= \frac{12}{7}$	d) $30 \div \frac{15}{4}$ $30 \times 4$ $= 9$	e) $55 \div \frac{15}{2}$ $\times \times $
f) $\frac{16}{5} \div 4$ $\frac{16}{5} \times \frac{1}{4}$ $= \frac{4}{5}$	= 5	h) $3\frac{3}{4} \div 5$ $\frac{15}{4} \div 5$ $= \frac{15}{4} \times \frac{1}{5}$ $= \frac{3}{4} \times \frac{1}{5}$	i) $5\frac{1}{4} \div 21$ $\frac{21}{4} \div 21$ $= \frac{21}{4} \times \frac{1}{21}$ $= \frac{1}{4} \times \frac{1}{4}$	j) $6\frac{2}{3} \div 8$ $\frac{20}{3} \div 8$ $= \frac{20}{3} \times \frac{1}{8} $
$k) \frac{20}{9} \div \frac{15}{3}$ $22 \times \frac{3}{4}$ $= 4$	1) $4\frac{2}{3} \div 1\frac{2}{7}$ $\frac{14}{3} \div \frac{9}{7}$ $\frac{14}{3} \times \frac{7}{9}$ $= \frac{98}{27}$	m) $\frac{16}{21} \div \frac{24}{35}$ $\frac{16}{21} \times \frac{24}{35}$ $\frac{16}{21} \times \frac{24}{35}$ $= \frac{10}{9}$	n) $6\frac{3}{4} \div \frac{3}{16}$ $\frac{27}{4} \div \frac{3}{16}$ $\frac{27}{4} \times \frac{3}{16} = 36$	o) $1\frac{10}{15} \div \frac{45}{81}$ $\frac{25}{3} \times \frac{45}{15}$ $\frac{25}{3} \times \frac{45}{15}$

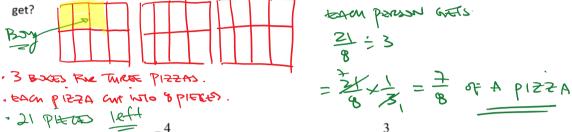
2. Draw a model to represent each of the following:



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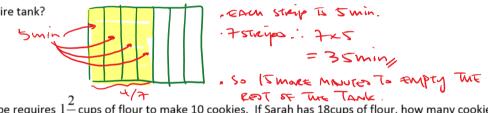
4. Sally and her friends bought three pizzas, with eight slices each. One of the boys ate 3 slices and went home. They now need to split the rest of the pizza amongst six people. What fraction of a pizza does each person



5. Michael has a piece of tape  $7\frac{4}{5}$  units long. If he cuts it into pieces each  $\frac{3}{5}$  of a unit long, how many pieces will he have?  $7\frac{4}{5}$   $\frac{3}{5}$ 



6. A high speed pump can empty 4/7 of a tank in 20 minutes. How many minutes would it take the pump to empty an entire tank?



7. A cookie recipe requires  $1\frac{2}{3}$  cups of flour to make 10 cookies. If Sarah has 18 cups of flour, how many cookies can she make?

(e? 
$$19 \div 1\frac{2}{3} \times 10 = 18 \times \frac{3}{3} \times 10^{2}$$
  
 $19 \div \frac{2}{3} \times 10 = 18 \times \frac{3}{3} \times 10^{2}$   
 $19 \times \frac{3}{5} \times 10 = 18 \times \frac{3}{5} \times 10^{2}$ 

