

HW SOL 2.1






October 25, 2016 1:55 PM

Name: Key by: Crystal Wu

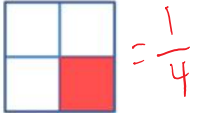
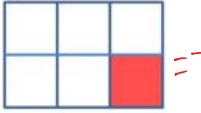
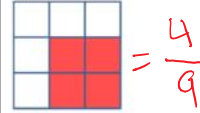


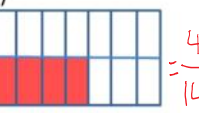
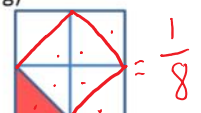




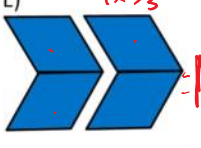
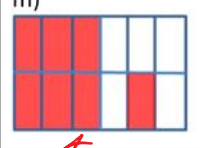

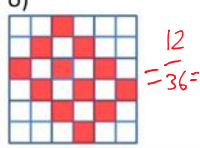
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Math 8 Section 2.1 Multiplying Fractions with Manipulatives:




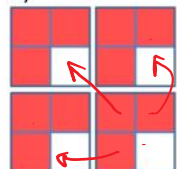
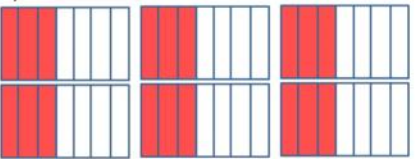

1. Given that one hexagon is equal to one unit, shade in each of the following fractions:

a) $\frac{1}{6}$ 	b) $\frac{1}{3}$ 	c) $\frac{1}{2}$ 	d) $\frac{2}{3}$ 	e) $\frac{5}{6}$ 
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2. Indicate the fraction represented by each of the shaded areas. Reduce the fraction to lowest terms:

a)  $= \frac{1}{4}$	b)  $= \frac{1}{6}$	c)  $= \frac{4}{9}$	d)  $\frac{3}{6} = \frac{1}{2}$	e)  $= \frac{5}{7}$
f)  $= \frac{4}{14}$	g)  $= \frac{1}{8}$	h)  $= \frac{5}{6}$	i)  $= \frac{3}{6} = \frac{1}{2}$	j)  $= \frac{7}{8}$
k)  $4 \times \frac{1}{2} = 2$	l)  $4 \times \frac{1}{3} = \frac{4}{3}$	m)  $= \frac{7}{12}$	n)  $= \frac{2}{3}$	o)  $= \frac{12}{36} = \frac{1}{3}$

3. Given each of the diagram, write the multiplication statement and then draw the answer with the space given:

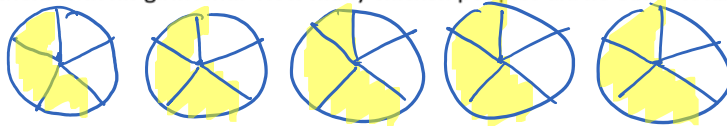
a)  $6 \times \frac{1}{3} = \frac{6}{3} = 2$	b)  $= 7 \times \frac{1}{6} = \frac{7}{6} = 1 \frac{1}{6}$
c)  $6 \times \frac{1}{3} = \frac{6}{3} = 2$	d)  $4 \times \frac{3}{4} = \frac{12}{4} = 3$
e)  $6 \times \frac{3}{7} = \frac{18}{7} = 2 \frac{4}{7}$	f)  $12 \times \frac{4}{6} = \frac{48}{6} = 8$

4. Determine the product for each of the following. Simplify your answer:

a) $6 \times \frac{2}{3} = \frac{12}{3} = 4$	b) $8 \times \frac{3}{4} = \frac{24}{4} = 6$	c) $15 \times \frac{3}{5} = \frac{45}{5} = 9$	d) $27 \times \frac{8}{9} = 24$
e) $4 \times \frac{11}{3} = \frac{44}{3}$	f) $9 \times \frac{4}{12} = 3$	g) $10 \times \frac{3}{24} = \frac{5}{4}$	h) $10 \times \frac{8}{5} \times \frac{4}{9} = \frac{64}{9}$
i) $100 \times \frac{9}{25} \times \frac{15}{18} = 30$	j) $23 \times \frac{22}{44} \times \frac{12}{46} = 3$	k) $\frac{18}{3} \times \frac{2}{3} \times \frac{12}{9} \times \frac{8}{24} = \frac{16}{9}$	l) $16 \times \frac{22}{12} \times \frac{27}{25} \times \frac{15}{18} = \frac{132}{5}$

$\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} \times \dots \frac{99}{100} = 1$

5. Johnny bought six chicken pot pies from Costco. He only ate $\frac{3}{5}$ of each pie because he shared every one of them with his girlfriend. How many chicken pot pies did he eat in total?



15 pieces, 5 piece per pie
 so $\frac{15}{5} = 3$ pie

6. Sandy has \$3000 in her bank account. $\frac{5}{6}$ of the money is for tuition. How much money will she have left after paying her tuition?

Tuition: $3000 \times \frac{5}{6} = 2500$
 LEFT = $3000 - 2500 = 500$

7. There are 60 students in Mr. Lee's class. $\frac{1}{5}$ of the students black hair, $\frac{1}{3}$ have blonde, and the rest have brown hair. How many students have brown hair?

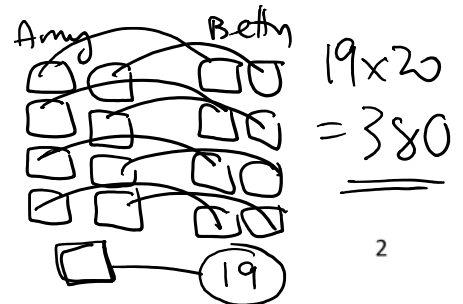
① BLACK HAIR $\frac{1}{5} \times 60 = 12$
 ② BLONDE $\frac{1}{3} \times 60 = 20$

③ REST BROWN HAIR
 $60 - 12 - 20 = 28$

8. Challenge: Amy, Betty, and Graham ran for Student Council president. Amy won with $\frac{9}{20}$ of the votes, Betty got $\frac{2}{5}$, and Graham got $\frac{3}{20}$. If 20 people had switched their vote from Graham to Betty, then Betty would have ended up with 1 more vote than Amy. How many people voted?

Amy: $\frac{9}{20}$
 Betty: $\frac{2}{5} = \frac{8}{20}$
 Graham: $\frac{3}{20}$

A	A	A	B	B
A	A	B	B	G
A	A	B	B	G
A	A	B	B	G



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Betty $\frac{8}{20} + 20 =$ Amy $\frac{9}{20} + 1$

$$\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} \times \frac{6}{7} \times \dots \times \frac{99}{100} = \frac{1}{100}$$