## Warm Up Grade 8

February **X**, 2016

1) Multiply and reduce the following

a) 
$$\frac{12}{35} \times \frac{21}{35}$$

$$= \frac{3 \times 21}{35 \times 5}$$

$$= \frac{3 \times 3}{5 \times 5}$$

$$= \frac{9}{25}$$

b) 
$$3\frac{2}{7} \times \frac{1}{5}$$
 $\frac{23}{7} \times \frac{1}{5}$ 
 $= \frac{23}{35}$ 

$$\frac{12x21}{35x20} = 252 \div 2 
 \frac{126 \div 2}{350 \div 2} 
 \frac{63 \div 7}{175 \div 7} 
 = \frac{9}{25}$$

## Using number lines to model

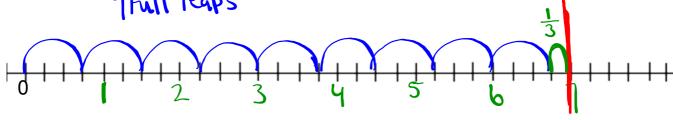
step 1) Draw a number line and count by the unit fraction of 1 up until 3 4

step 2) Do leaps of 3/4

step 3) Count the leaps

\* if you have partial leaps then the "how much of the leap did you take"

9 Full leaps



$$\int_{-3}^{3} \frac{3}{4} = 9\frac{1}{3}$$

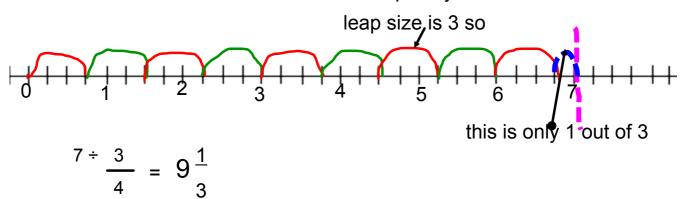
## Using number lines to model

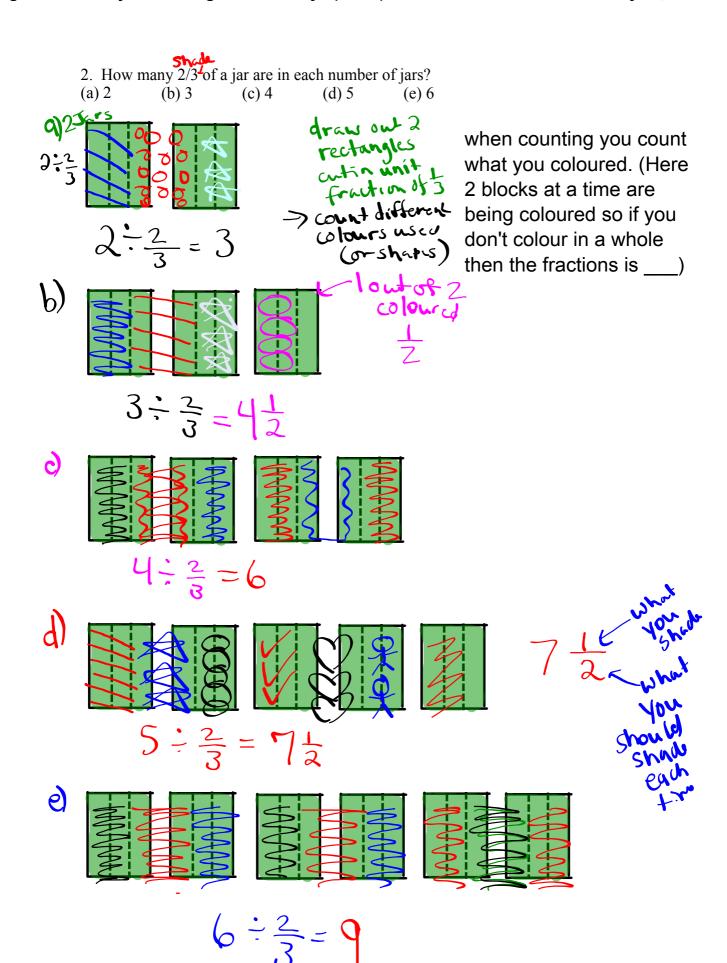
 $7 \div 3$  step 1) Draw a number line and count by the unit fraction of  $\frac{1}{4}$  up until 6

step 2) Do leaps of 3/4

step 3) Count the leaps

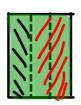
\* if you have partial leaps then the "how much of the leap did you take"





2. How many 2/3 of a jar are in each number of jars? (b) 3 (c) 4 (d) 5















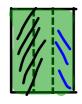


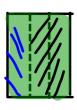


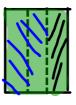


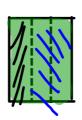










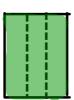




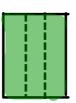


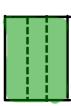








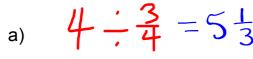


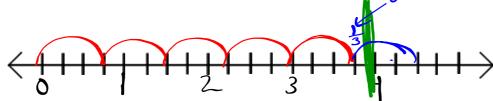


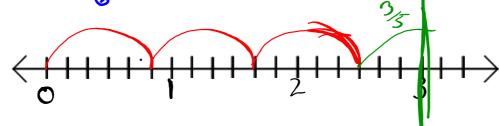


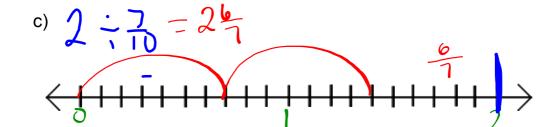
Homework Pallo #3-5 Sheet 4.8#7-10 Write a rule for dividing fractions.

count by the unit fraction 3 dashes



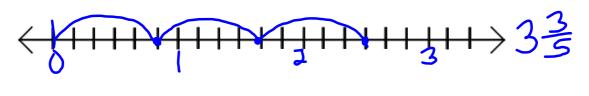


















$$2 \div \frac{1}{2} \implies 2 \times \frac{2}{1} = 4$$

$$\frac{1}{2} \Longrightarrow \frac{2}{1}$$

$$4 \div \frac{1}{2} \implies 4 \times \frac{2}{1} = 8$$

$$\frac{1}{2} \Rightarrow \frac{2}{1}$$

$$3 \div \frac{2}{3} \implies 3 \times \frac{3}{2} = \frac{9}{2}$$

$$\frac{2}{3} \Rightarrow \frac{3}{2}$$

$$5 \div \frac{2}{3} \implies 5 \times \frac{3}{2} = \frac{15}{2}$$

$$\frac{2}{3} \Rightarrow \frac{3}{2}$$

$${}^{2} \div \frac{3}{2} \implies {}^{2} \times \frac{2}{3} = \frac{4}{3}$$

$$\frac{3}{2} \Longrightarrow \frac{2}{3}$$

$$6 \div \frac{3}{2} \implies 6 \times \frac{2}{3} = 12$$

$$\frac{3}{2} \Rightarrow \frac{2}{3}$$



## Use Fraction Rectangles or numberlines

Page 132 # 3(c,d)
#4(a,b,c,d)
#5(Use numberline),
#8(a i, ii)
#8(b, ii, ①)
#9(a,b)

#10(a,b,c)

Show all work

May want to use different colours