Warm Up Grade 8

Date:_____, 2020

1) Multiply and reduce the following

a) $\frac{12}{35} \times \frac{21}{20} = \frac{252}{700}$ (÷4, ÷7, ÷28)

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

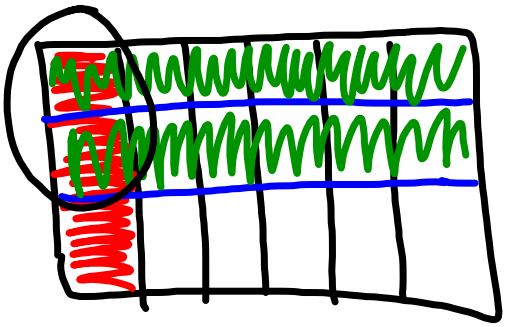
$= \frac{9}{25}$

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

$\frac{23}{7} \times \frac{1}{5}$

$\frac{23}{35}$

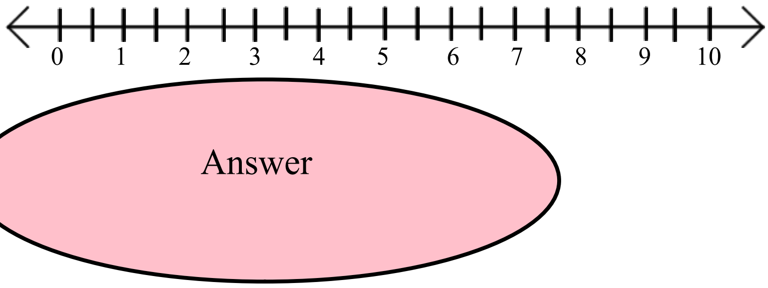
model $\frac{1}{6} \times \frac{2}{3}$ (with a rectangular box)

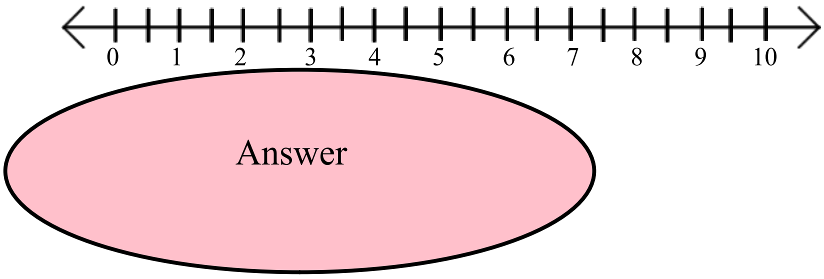


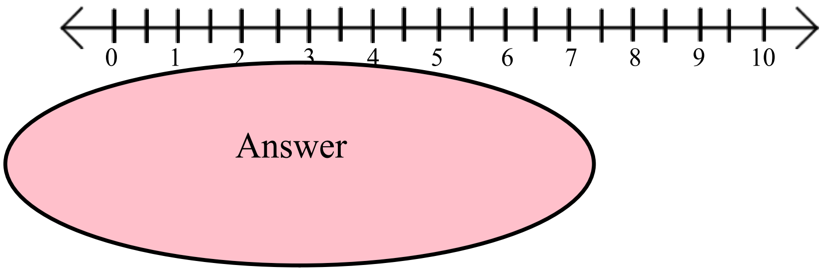
$\frac{2}{18} = \frac{1}{9}$

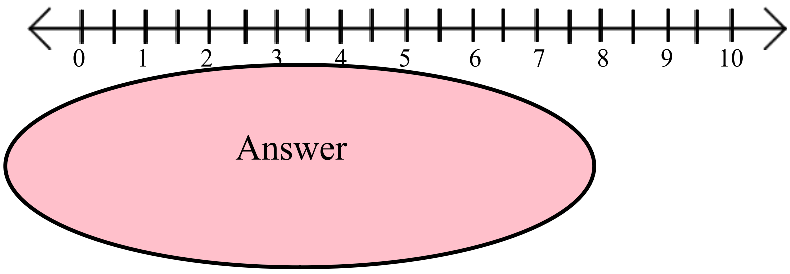
Dividing a Whole Number by a Fraction

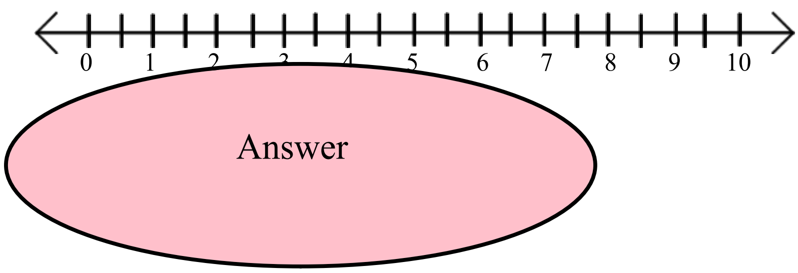
pg. 110
1. How many 1/2 h TV programs are in each of the number of hours?
(a) 2 (b) 3 (c) 4 (d) 5 (e) 6











2. How many 2/3 of a jar are in each number of jars?
(a) 2 (b) 3 (c) 4 (d) 5 (e) 6

Jump Size

a) 2 Jars

Stop

$2 \div \frac{2}{3} = 3$

ANSWER

Jump Size

$3 \div \frac{2}{3} = 4\frac{1}{2}$

Whole is cut in to

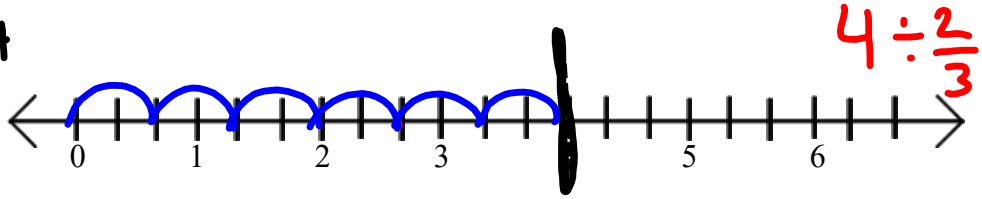
b) 3 Jars

$\frac{1}{2}$ Stop

ANSWER

c) 4

$4 \div \frac{2}{3} = 6$



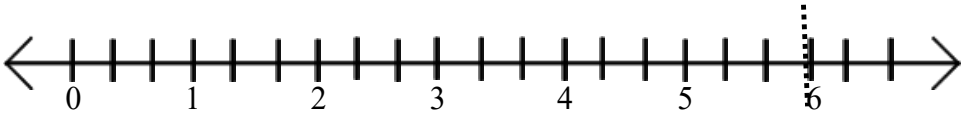
ANSWER

d) 5 Jars

$5 \div \frac{2}{3} = 7\frac{1}{2}$

$\frac{1}{2}$

ANSWER



ANSWER

Using number lines to model

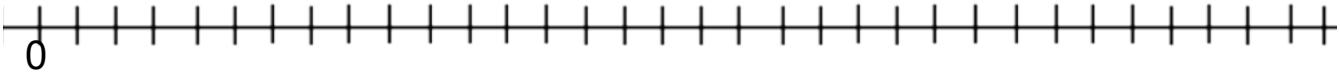
$7 \div \frac{3}{4}$

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"



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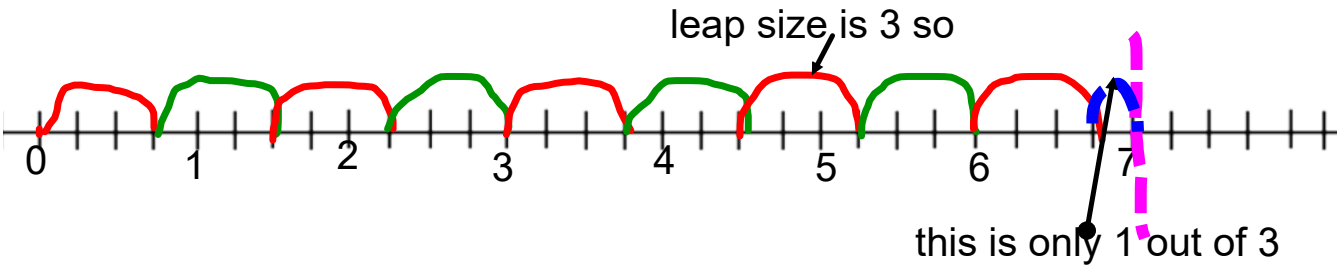
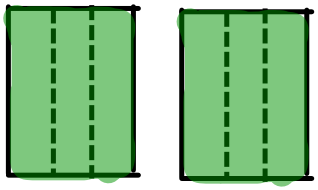
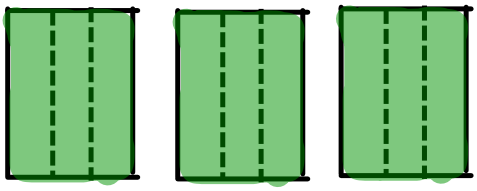


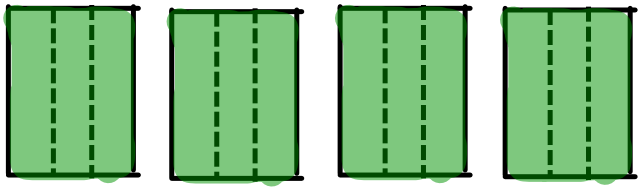
$7 \div \frac{3}{4} = 9\frac{1}{3}$

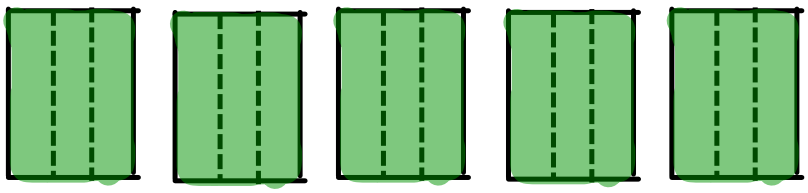
2. How many 2/3 of a jar are in each number of jars?
(a) 2 (b) 3 (c) 4 (d) 5 (e) 6

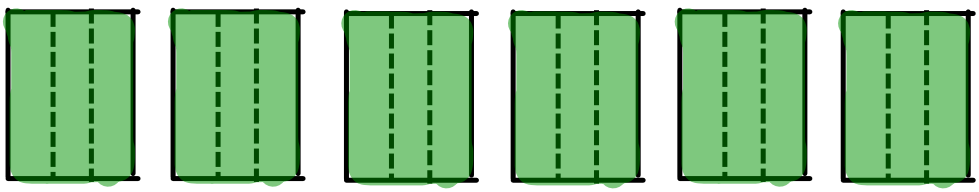


when counting you count what you coloured. (Here 2 blocks at a time are being coloured so if you don't colour in a whole then the fractions is ___)









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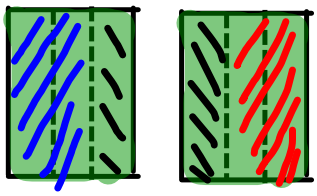
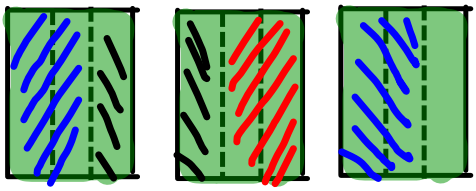
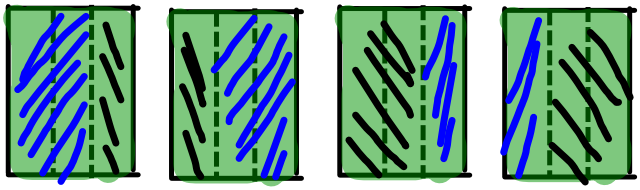
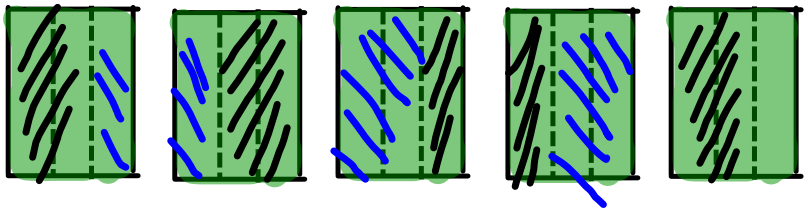
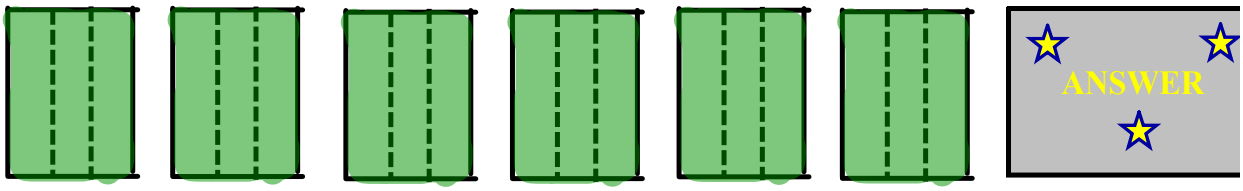










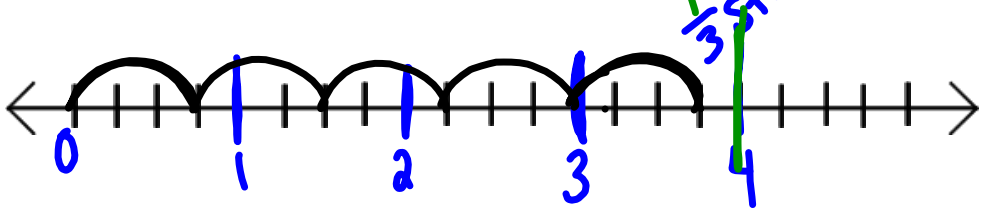
Homework pg 110 #3-5 Sheet 4.8 #7-10
Write a rule for dividing fractions.

count by the unit fraction

a) $4 \div \frac{3}{4}$ ← what whole is cut into

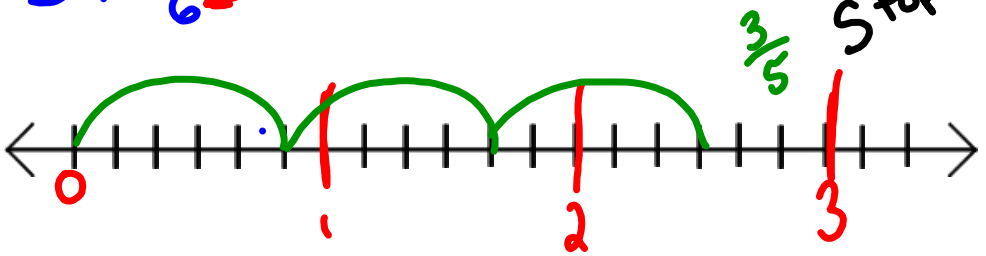
Jump size

$5\frac{1}{3}$

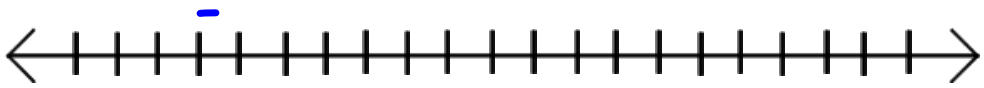


b) $3 \div \frac{5}{6}$ ← whole cut in to

$3\frac{3}{5}$



c) $2 \div \frac{7}{10}$



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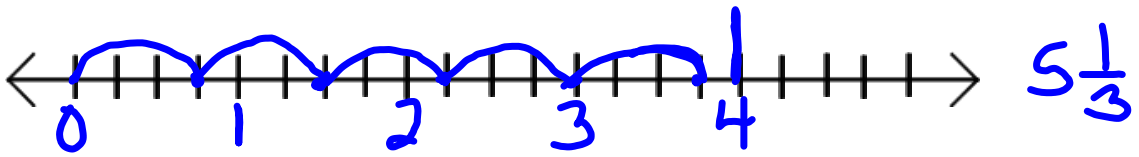
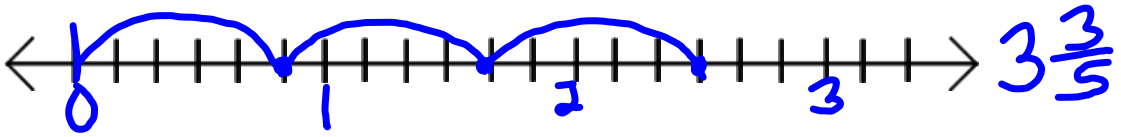
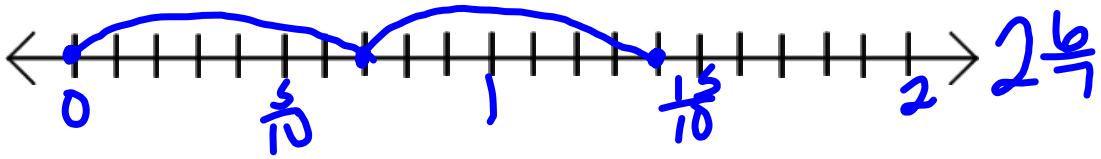


$3 \div \frac{5}{6}$



$2 \div \frac{7}{10}$



Homework
Pg 132 #3-10

$2 \div \frac{1}{2} \Rightarrow 2 \times \frac{2}{1} = \frac{4}{1}$ $\quad \frac{1}{2} \Rightarrow \frac{2}{1}$

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

$3 \div \frac{2}{3} \Rightarrow 3 \times \frac{3}{2} = \frac{9}{2}$ $\quad \frac{2}{3} \Rightarrow \frac{3}{2}$

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

$2 \div \frac{3}{2} \Rightarrow 2 \times \frac{2}{3} = \frac{4}{3}$ $\quad \frac{3}{2} \Rightarrow \frac{2}{3}$

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

Reciprocals

Class/Homework

Use Fraction Rectangles or numberlines

Show all work

May want to use different colours

Page 132 # 3(c,d)

#4(a,b,c,d)

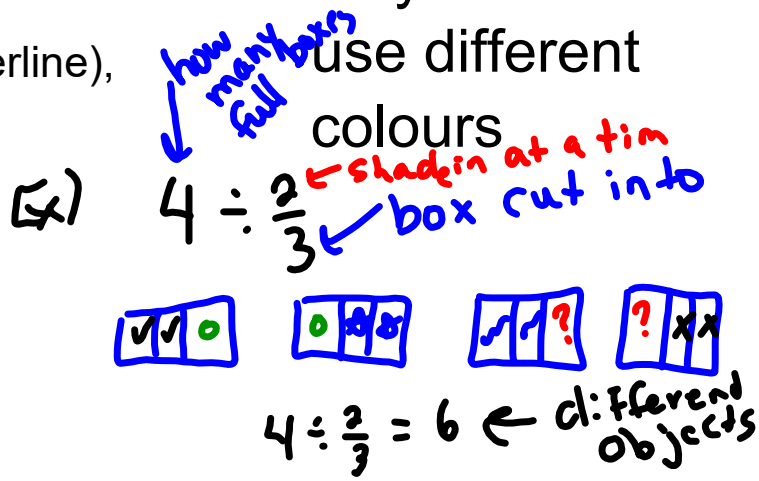
#5(Use numberline),

#8(a, ii)

#8(b, iii)

#9(a,b)

#10(a,b,c)



$7 \div \frac{2}{3}$ → Shade 2 at a time $= 10\frac{1}{2}$