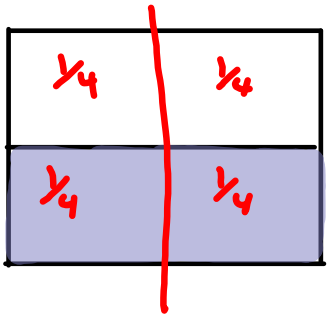
Dividing a Fraction by a Whole Number

pg. 108

1. What fraction of a whole cake would each person get if half a cake is shared equally among :

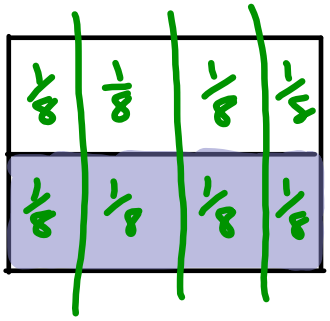
(a) 2 students (b) 4 students (c) 8 students (d) 3 students (e) 6 students



$\frac{1}{2} \div 2$

$= \frac{1}{4}$

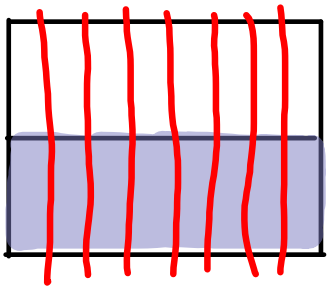
Answer



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

$= \frac{1}{8}$

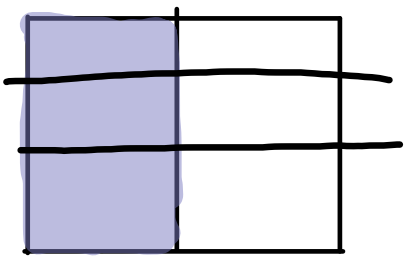
Answer



Answer

$\frac{1}{2} \div 8$

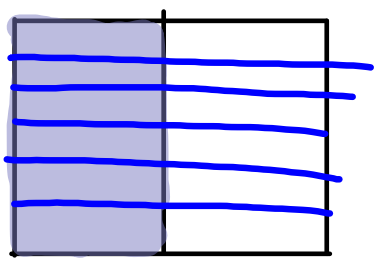
$\frac{1}{16}$



Answer

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

$\frac{1}{6}$



Answer

$\frac{1}{2} \div 6$

$\frac{1}{12}$

Dividing a Fraction by a Whole Number

pg. 108

1. What fraction of a whole cake would each person get if half a cake is shared equally among :

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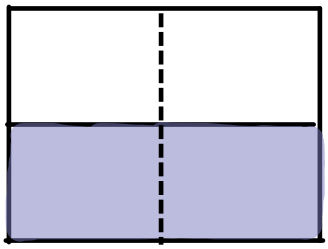
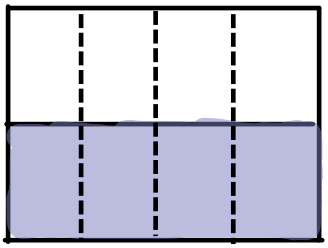
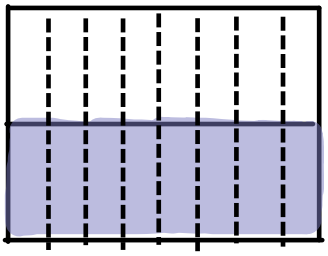


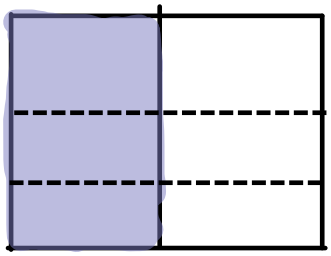
Answer



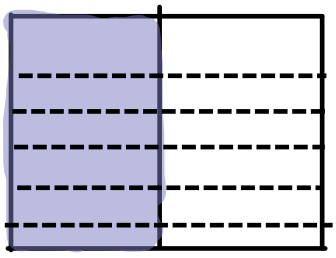
Answer



Answer



Answer



Answer

Using number lines to model

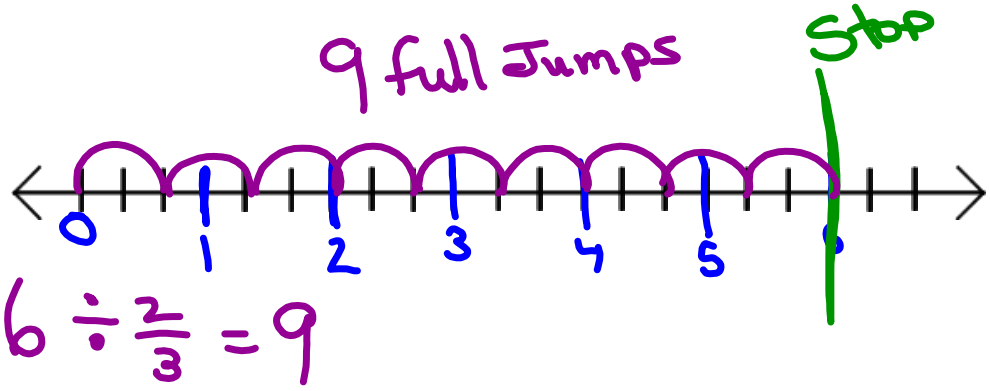
stop ← Jump size

$6 \div \frac{2}{3}$ ← whole cut in to

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

step 2) Do leaps of 2/3 (2 dashes at time)

step 3) Count the leaps



$6 \div \frac{2}{3} = 9$

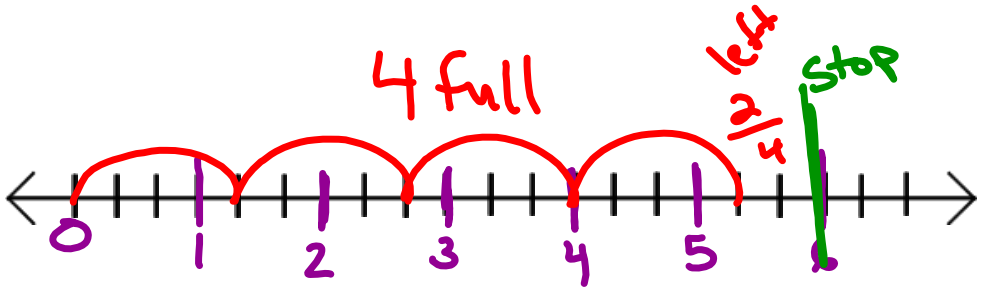
Using number lines to model

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

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

step 2) Do leaps of 4/3

step 3) Count the leaps



$6 \div \frac{4}{3} = 4\frac{2}{4}$ ⇒ Reduce $4\frac{1}{2}$

but 2 is half of 4

3 3

so only $\frac{1}{2}$ a jump

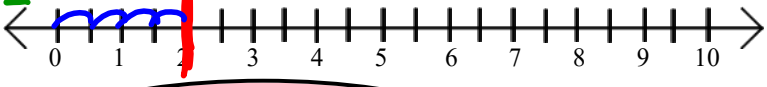
Dividing a Whole Number by a Fraction

pg. 110

1. How many 1/2 h TV programs are in each of the number of hours?

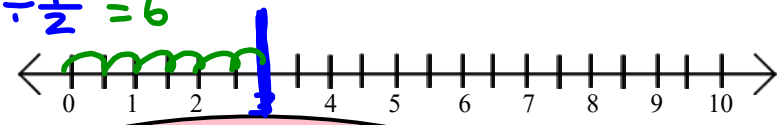
(a) 2 (b) 3 (c) 4 (d) 5 (e) 6

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



Answer

$3 \div \frac{1}{2} = 6$



Answer

Answer

Answer

Answer

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

$\frac{2}{3}$ ← whole cut in to

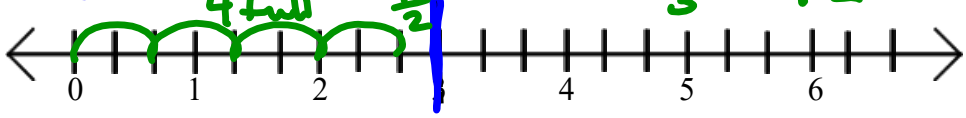
a) $2 \div \frac{2}{3} = 3$ stop

ANSWER

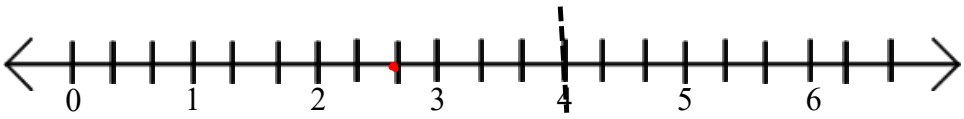
b) $3 \div \frac{2}{3}$ ← Jump size

4 full $\frac{1}{2}$

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

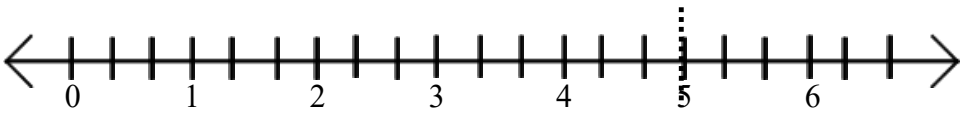


ANSWER

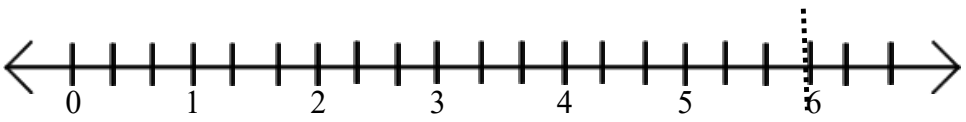


ANSWER

STOP



ANSWER



ANSWER