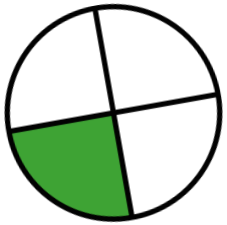
Sense of Number
Visual Fractions Policy

Newchurch Community Primary School
December 2014



1/4

Graphic Design by Dave Godfrey

Compiled by the Sense of Number Maths Team

For sole use within Newchurch Community Primary School.

'A picture is worth 1000 words!'

www.senseofnumber.co.uk

Newchurch Community Primary

Guide to using a 1/4 Visual Fractions Policy

The Sense of Number Visual Fractions Policy provides a visual representation of the progression found within Domain 4: Fractions in the new National Curriculum.

A school branded VFP is created by Dave Godfrey for individual schools when the school logo and school name are added to the footer of each slide.

Typical uses:

Classroom: The slides are printed out (e.g. A4) and the appropriate slides are displayed within each classroom for continual reference or on a working wall.

Teacher Reference: The slides are printed out (e.g. 9 slides per A4 page) and inserted in the teacher's planning folder.

Parents: The slides are used to communicate to parents the school's approach to teaching fractions.

Website: Selected slides from the VFP are inserted onto a school's maths webpages. (Please note: the VFP should not be made available for download.)

Newchurch Community Primary

Sections in the 1/4 Visual Fractions Policy

1-4 Introduction Slides
5-15 General Fractions Slides: Vocab, Defining, Types, 1 Whole, Walls etc.

Pages	Code	Years	Theme
16-23	FA	Y2-Y6	Counting in Fractions
24-27	FB	Y2-Y5	Fractions as a Number
28-36	FC	Y1-Y3	Recognising and naming Unit & Non-Unit Fractions
37-40	FD	Y3-Y5	Ordering Fractions
41-47	FE	FS-Y5	Finding and naming a Fraction of a Quantity
48-61	FF	Y1-Y6	Equivalent Fractions
62-65	FG	Y3-Y6	Decimal/Fraction/Percentage Equivalences
66-76	FH	Y2-Y6	Common FDP Equivalences & FDP Walls
77-91	FI	Y2-Y6	Fractions to 1
92-95	FJ	Y2-Y5	Fractions Greater than 1
96-116	FK	Y1-Y6	Calculating with Fractions (+, -, x, ÷)
117-123	FL	Y3-Y6	Division as a Fraction
124-125	FM	Y5-Y6	Jump! and Remainders

Newchurch C.P. School Preparing To Fly

Newchurch Community Primary

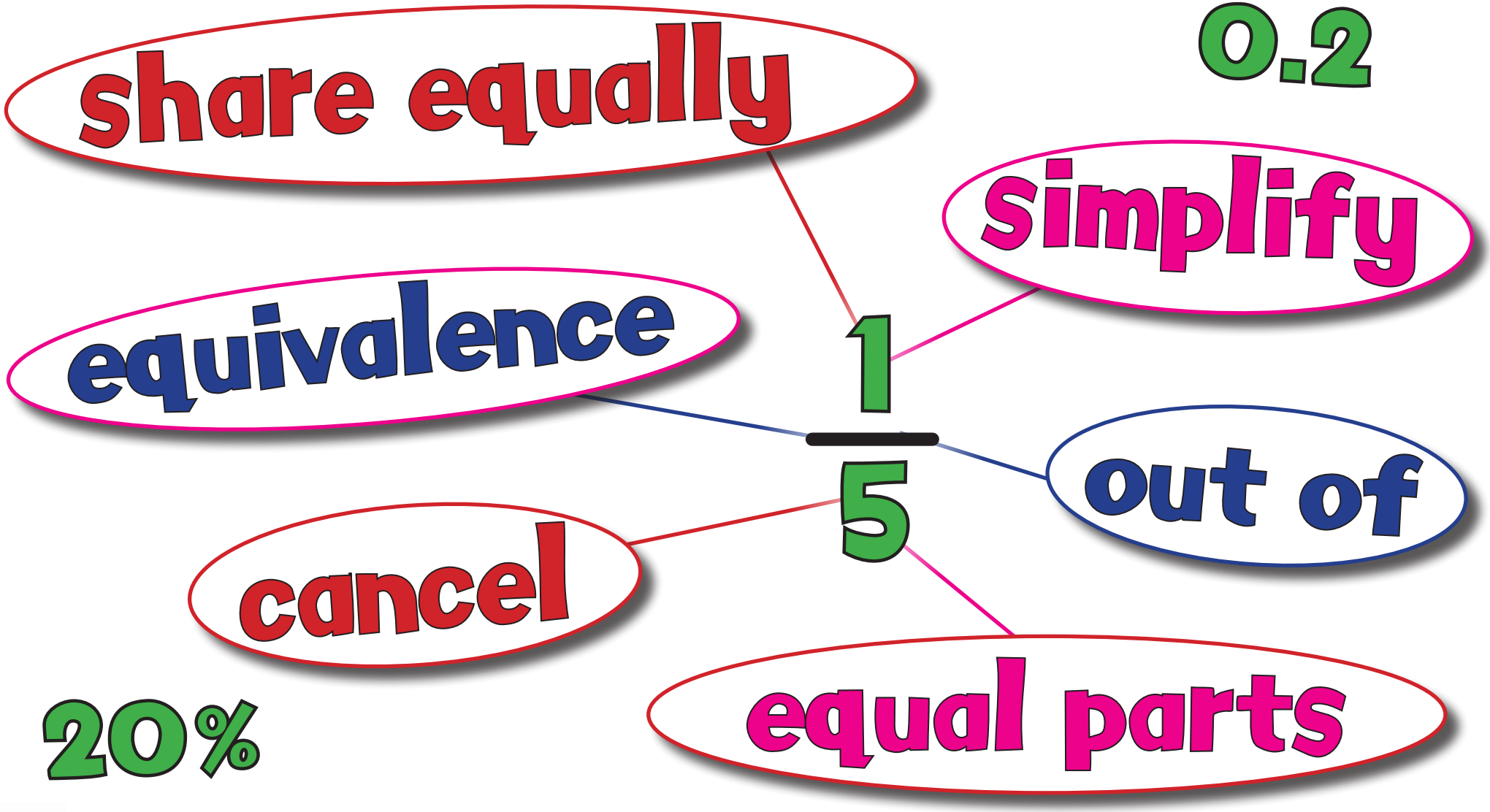
Year Group

$\frac{1}{4}$

Specific Slide Locations

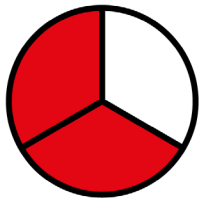
Section	FS	Y1	Y2	Y3	Y4	Y5	Y6
FA: Counting			16,17	18,19	20,21	22,23	
FB: Number			24	25	26	27	
FC: Recognising		28,29	30,31	32-35	36		
FD: Ordering				37,38		39,40	
FE: Quantity	41	42,43	44	45	46	47	
FF: Equivalence			48-50	51-54	55-59	60	61
FG: FDP Equiv.				62	63	64,65	
FH: Common FDP					66	67-70	71-76
FI: Fractions to 1			77,78	79-83	84-88	89,90	91
FJ: > 1			92	93	94	95	
FK: Addition		96	97	98	99	100	101,102
FK: Subtraction				103	104	105	106,107
FK: Multiplication						108,109	110,111
FK: Division						112,113	114-116
FL: Div. as a Fractn.				117	118,119	120,121	122,123
FM: Extras						124	125

Fractions Vocabulary

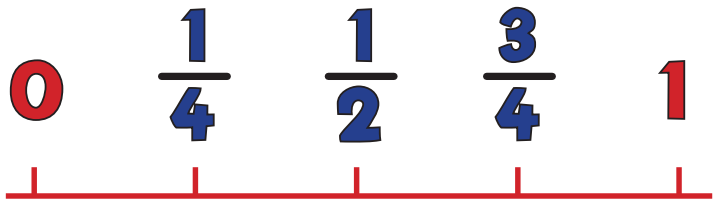


Newchurch Community Primary

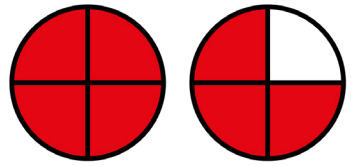
Defining a Fraction

$\frac{2}{3}$ 

Equal Parts of a Whole



A Number

$\frac{7}{4}$ 

More than a Whole

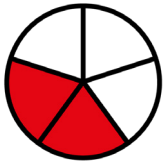
$\frac{1}{5} = 1 \div 5$

A Division

$\frac{1}{4}$ of 16

A Fraction of an Amount

$\frac{2}{5} = 40\%$

$= 0.4$ 

An Equivalence

Newchurch C.P. School
Preparing To Fly

Newchurch Community Primary

Parts of a Fraction

$$\frac{1}{4}$$

1 — Numerator

4 — Denominator

"Fractions is sharing equally"

Fraction Bar (Vinculum)

Newchurch C.P. School
Preparing To Fly

Newchurch Community Primary

Types of Fractions

Unit Fraction
(Numerator = 1)

$\frac{1}{5}$

Non-unit Fraction
(Numerator > 1)

$\frac{3}{5}$

Proper Fraction
(Numerator < Denominator)

$\frac{2}{5}$ or $\frac{4}{5}$

Improper Fraction
(Numerator > Denominator)

$\frac{8}{5}$ or $\frac{12}{5}$

Mixed Fraction
(Whole number + Proper Fraction)

$1\frac{3}{5}$

Vulgar Fraction
(Proper or Improper Fraction)

$\frac{4}{5}$ or $\frac{8}{5}$

Newchurch C.P. School
Preparing To Fly

Newchurch Community Primary

Naming a Fraction

If the **numerator** is **1**, the **denominator** is **10**, then the name of my fraction is **one tenth**.

$\frac{1}{10}$

$\frac{1}{2}$ One half

$\frac{1}{6}$ One sixth

$\frac{3}{4}$ Three quarters

$\frac{5}{5}$ Five fifths - One Whole!

$\frac{7}{3}$ Seven thirds

$\frac{27}{32}$ Twenty-seven thirty-seconds

Note: The denominator is said as an ordinal number (except halves and quarters!)

Newchurch C.P. School — Preparing To Fly

Newchurch Community Primary

Fraction Wall

(1/2)

$\frac{1}{3}$	$\frac{3}{8}$	$\frac{4}{4}$	$\frac{3}{2}$	$\frac{7}{10}$	$\frac{7}{8}$
$\frac{3}{4}$	$\frac{1}{4}$	$\frac{5}{9}$	$\frac{1}{2}$	$\frac{2}{2}$	$\frac{9}{2}$
$\frac{7}{10}$	$\frac{2}{4}$	$\frac{1}{9}$	$\frac{7}{4}$	$\frac{3}{8}$	$\frac{5}{5}$

Newchurch C.P. School
Preparing To Fly

Newchurch Community Primary

Fraction Wall

(2/2)

$\frac{2}{3}$	$\frac{9}{8}$	$\frac{1}{91}$	$\frac{5}{2}$	$\frac{30}{10}$	$\frac{8}{32}$
$\frac{3}{7}$	$\frac{8}{12}$	$\frac{5}{19}$	$\frac{14}{14}$	$\frac{31}{5}$	$\frac{17}{2}$
$\frac{7}{15}$	$\frac{2}{6}$	$\frac{11}{3}$	$\frac{12}{4}$	$\frac{3}{8}$	$\frac{9}{9}$

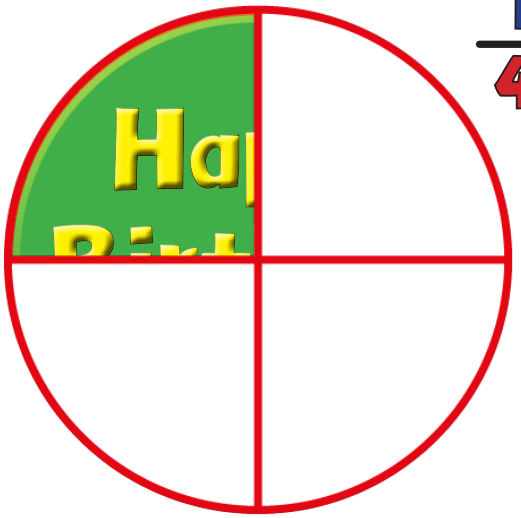
Newchurch C.P. School
Preparing To Fly

Newchurch Community Primary

A Fraction of a Whole

$\frac{1}{2}$

$\frac{1}{4}$



1 whole cake!

$\frac{5}{16}$

$\frac{3}{8}$

Fractions: 1 Whole

1

1 whole pack of 6 cans

1

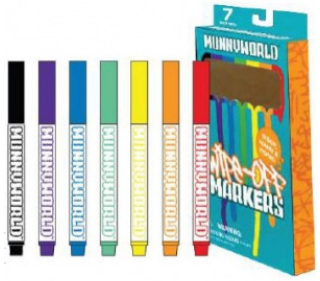
(1 whole)

1

1 whole box of 12 eggs

1

1 whole pack of 4 balls



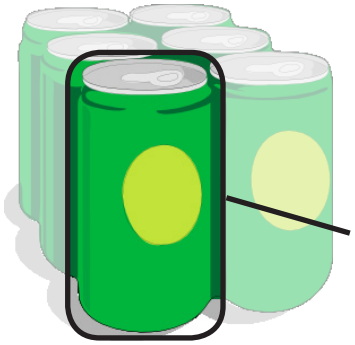
1

1 whole pack of 7 pens

1

1 whole bunch of 5 bananas

A Fraction of a Whole

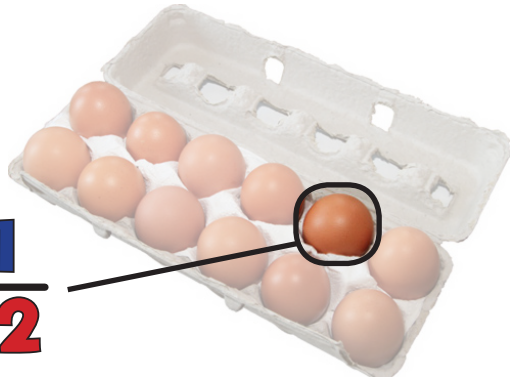


$\frac{1}{6}$

1 can from the whole pack of 6 cans

$\frac{?}{?}$

(A fraction of a whole)



$\frac{1}{12}$

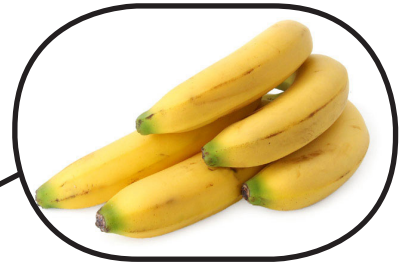
1 egg from the whole box of 12 eggs

$\frac{2}{4}$

2 balls from the whole pack of 4 balls

$\frac{3}{7}$

3 pens from the whole pack of 7 pens



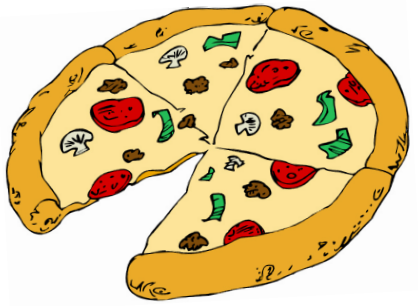
$\frac{5}{5}$

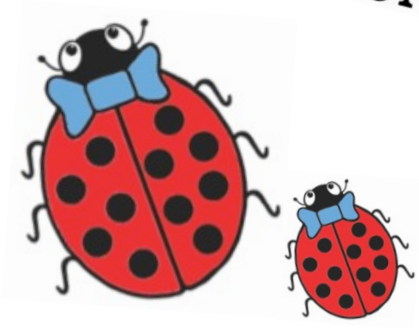
5 bananas from the whole bunch of 5 bananas

Newchurch C.P. School Preparing To Fly

Newchurch Community Primary

Fractions are Everywhere!

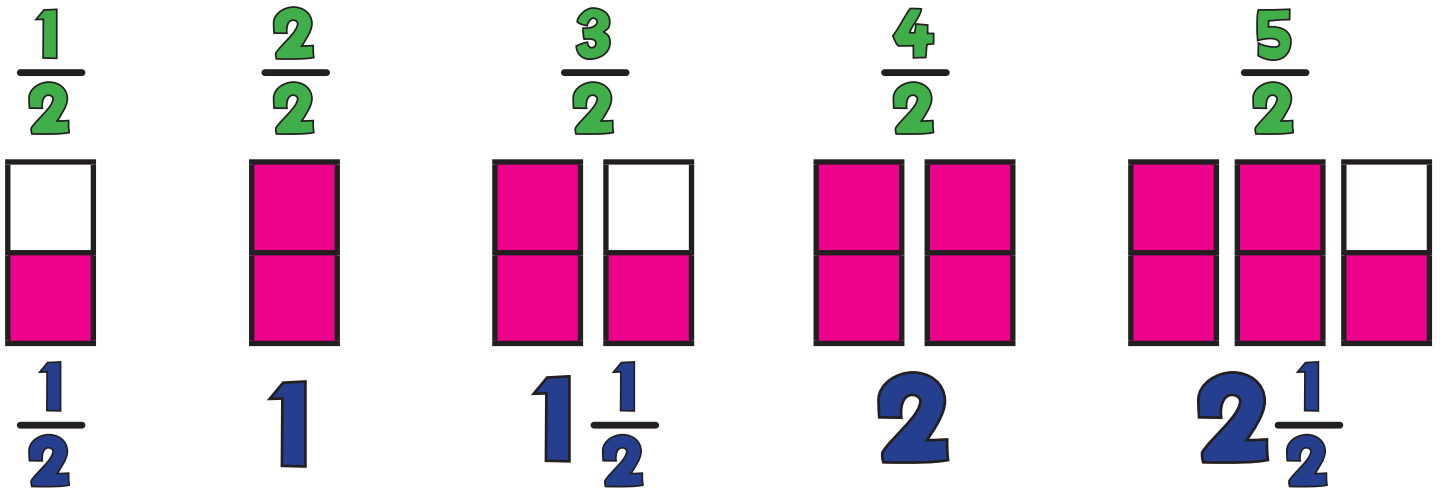


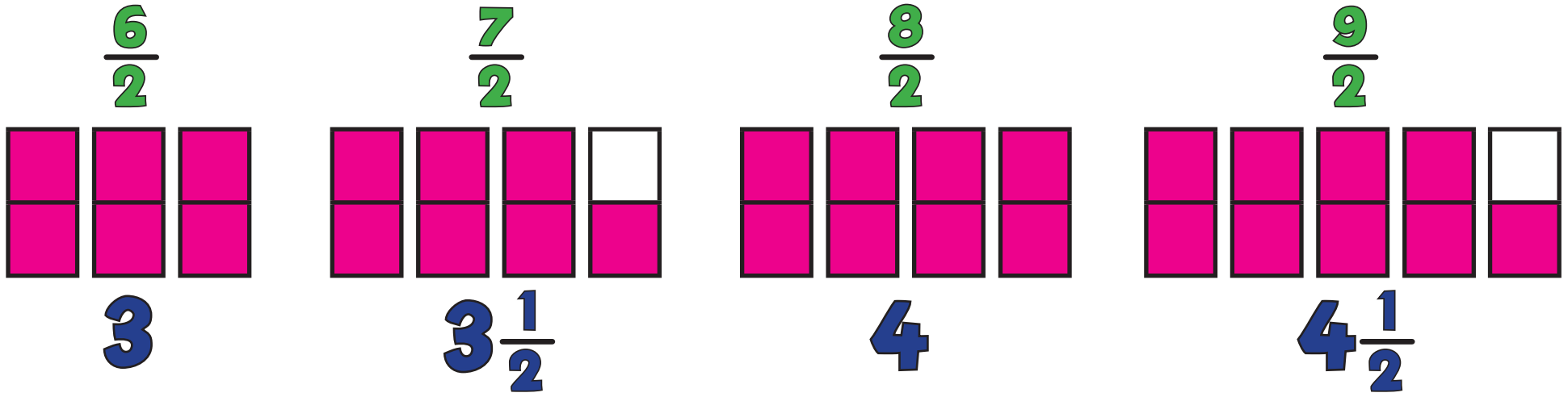


FA: Counting in Fractions

2a

$\frac{1}{2}$

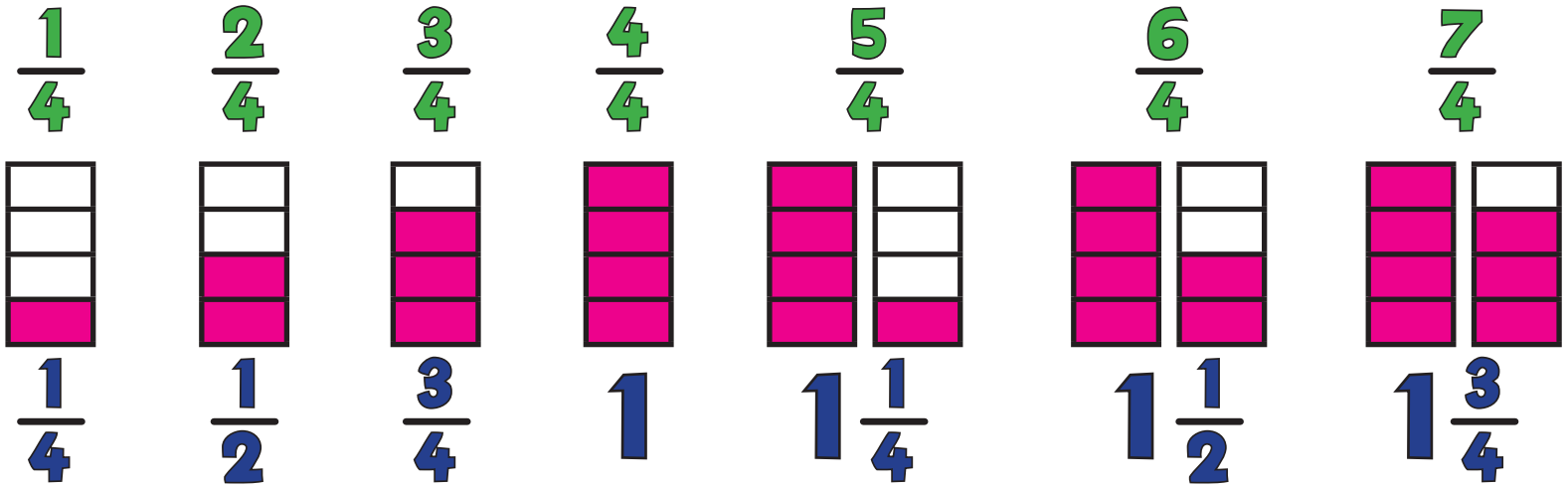


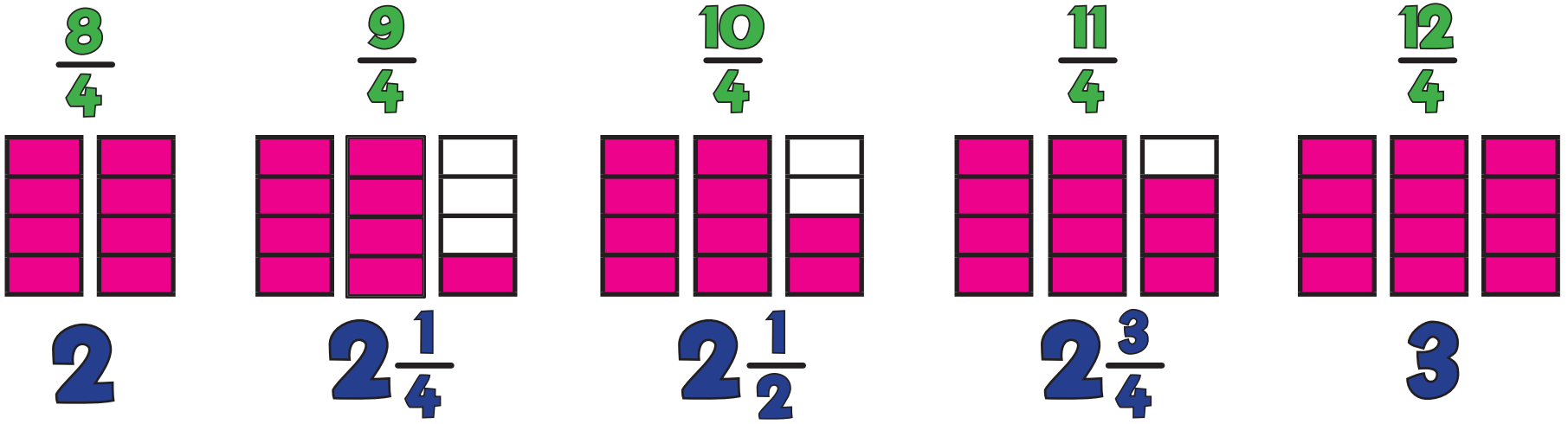


FA: Counting in Fractions

2b

$\frac{1}{4}$

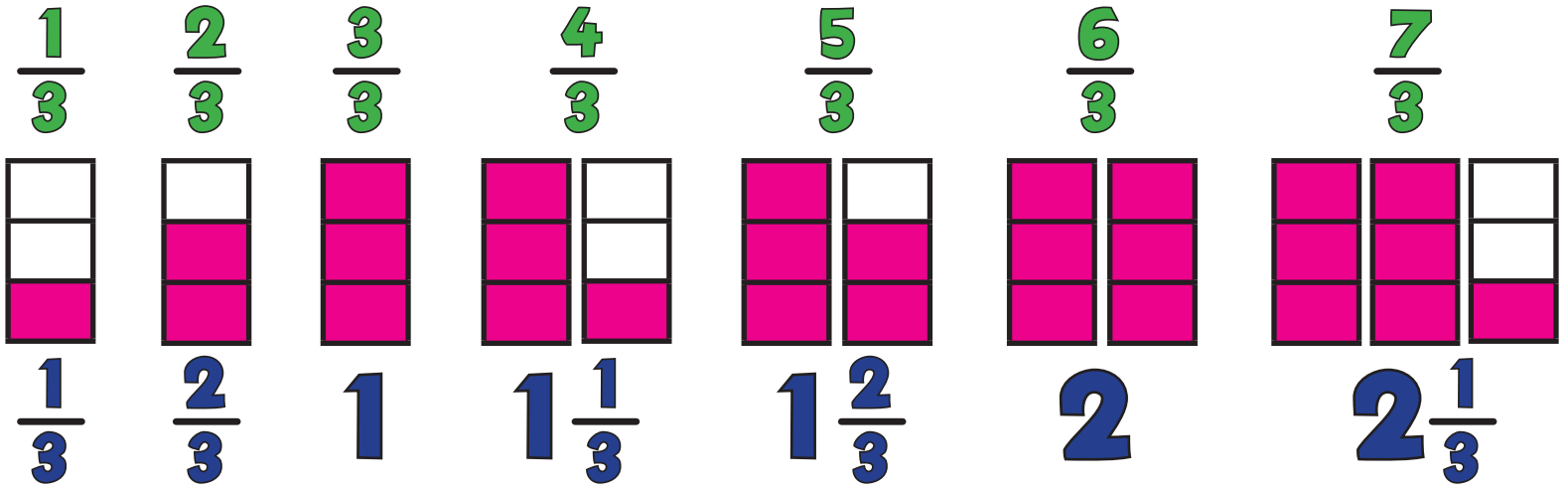


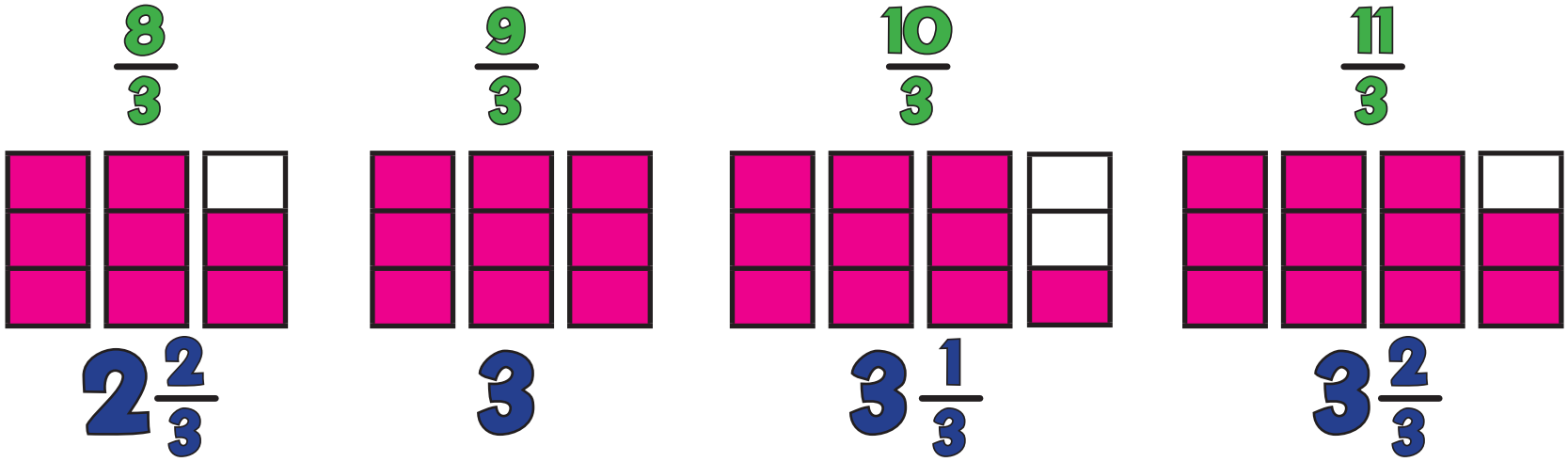


FA: Counting in Fractions

3a

$\frac{1}{3}$

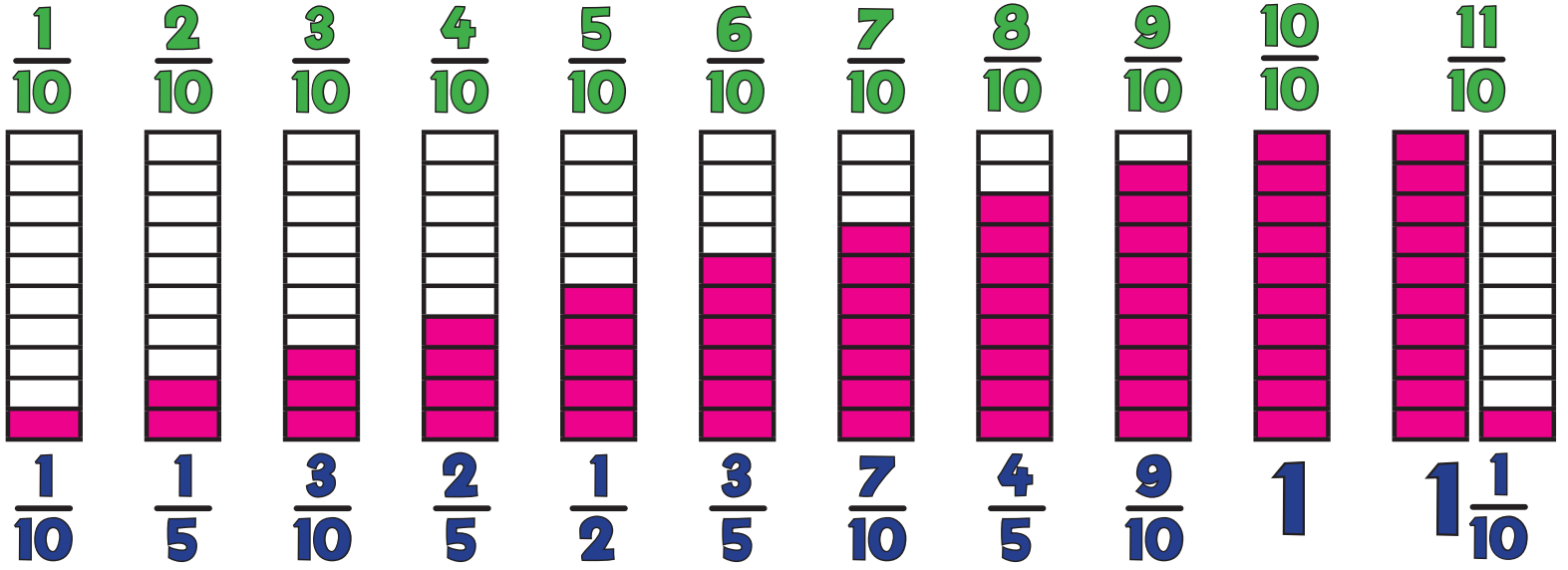


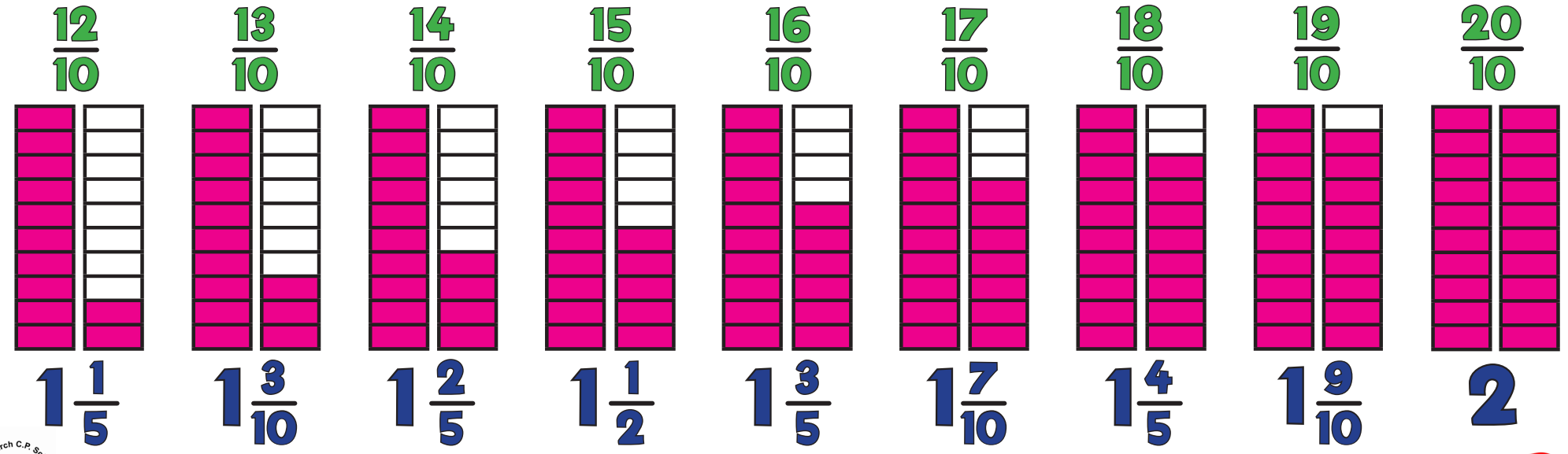


FA: Counting in Fraction

3b

$\frac{1}{10}$

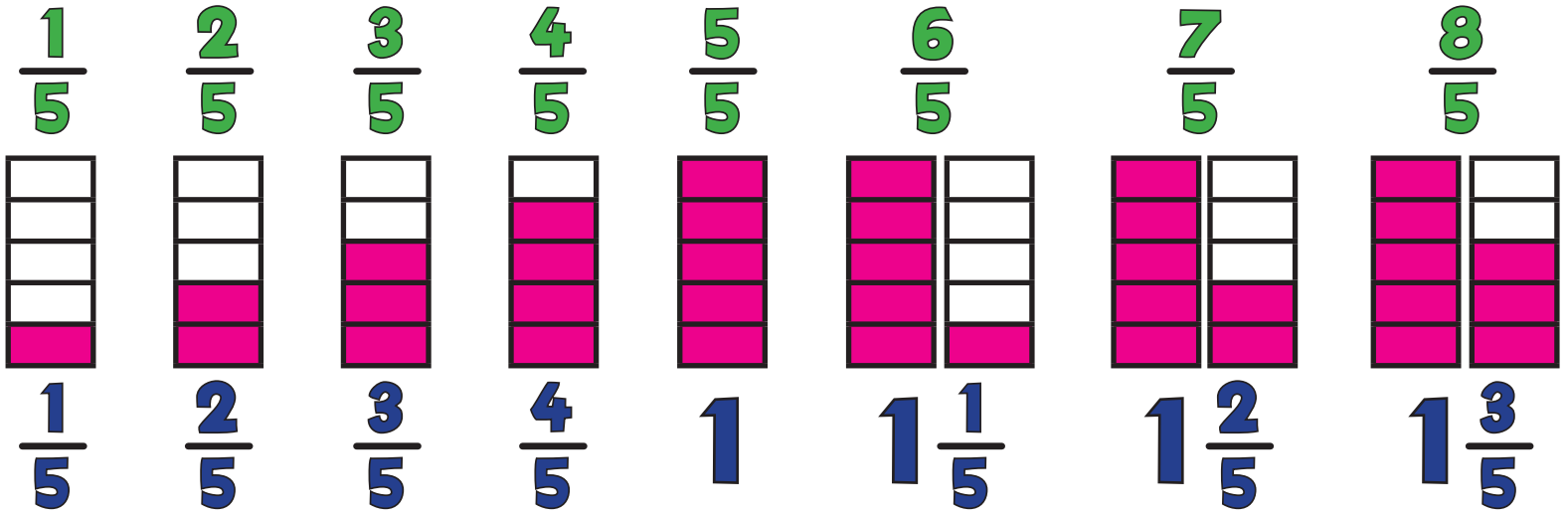


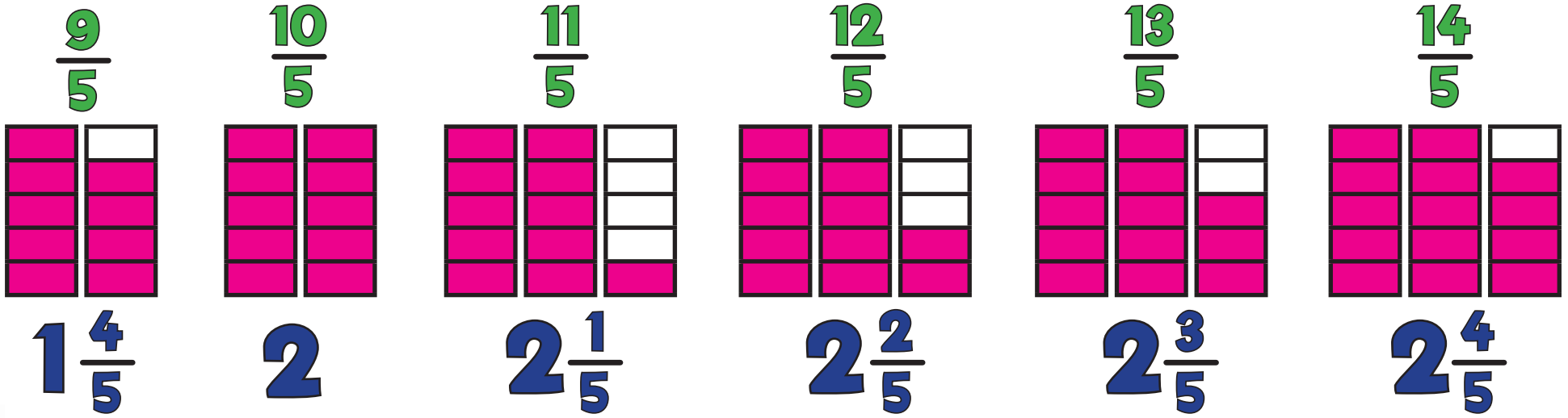


FA: Counting in Fractions

4a

$\frac{1}{5}$

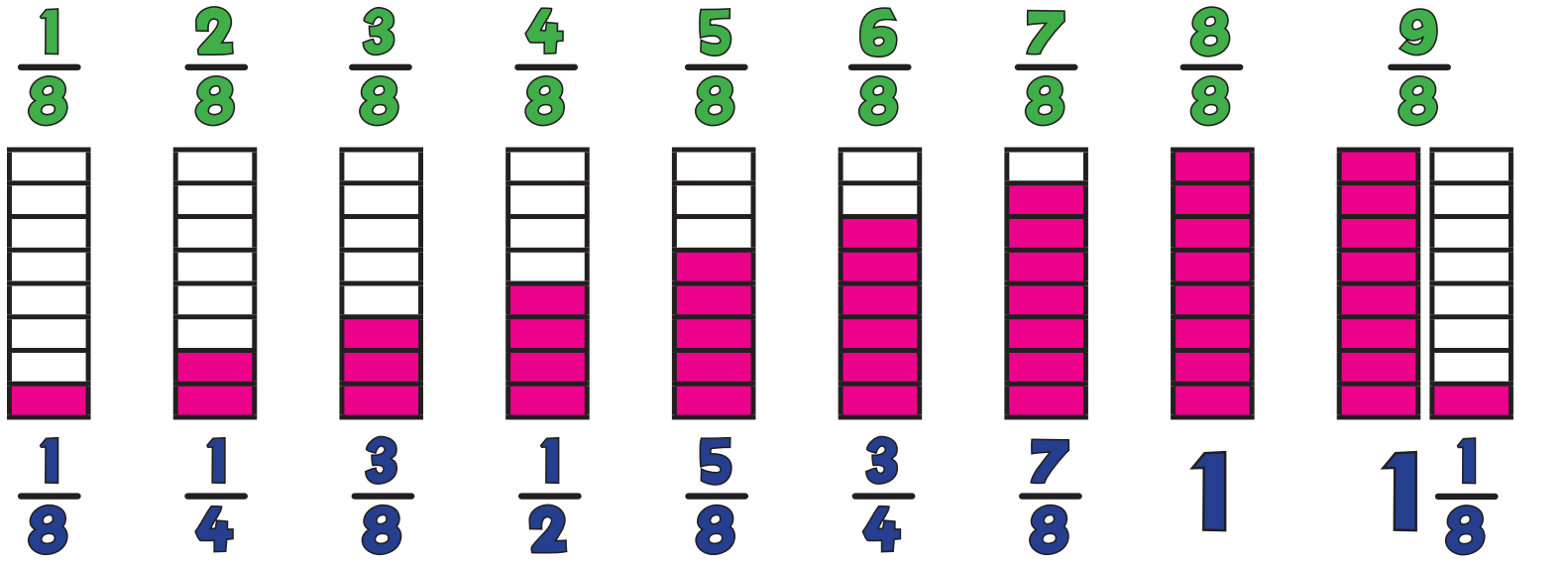


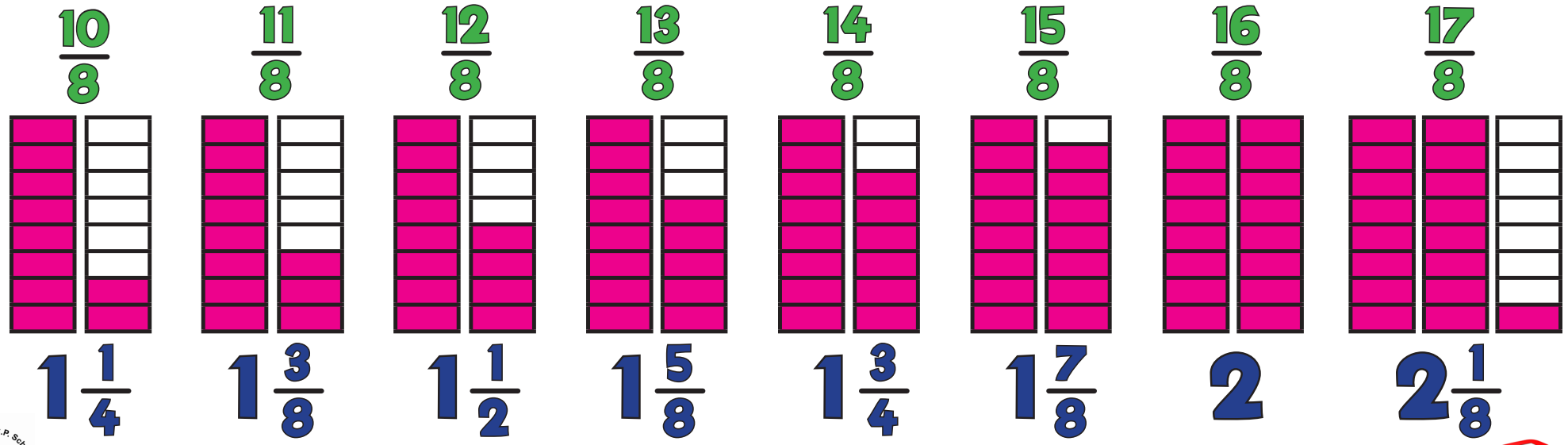


FA: Counting in Fractions

4b

$\frac{1}{8}$





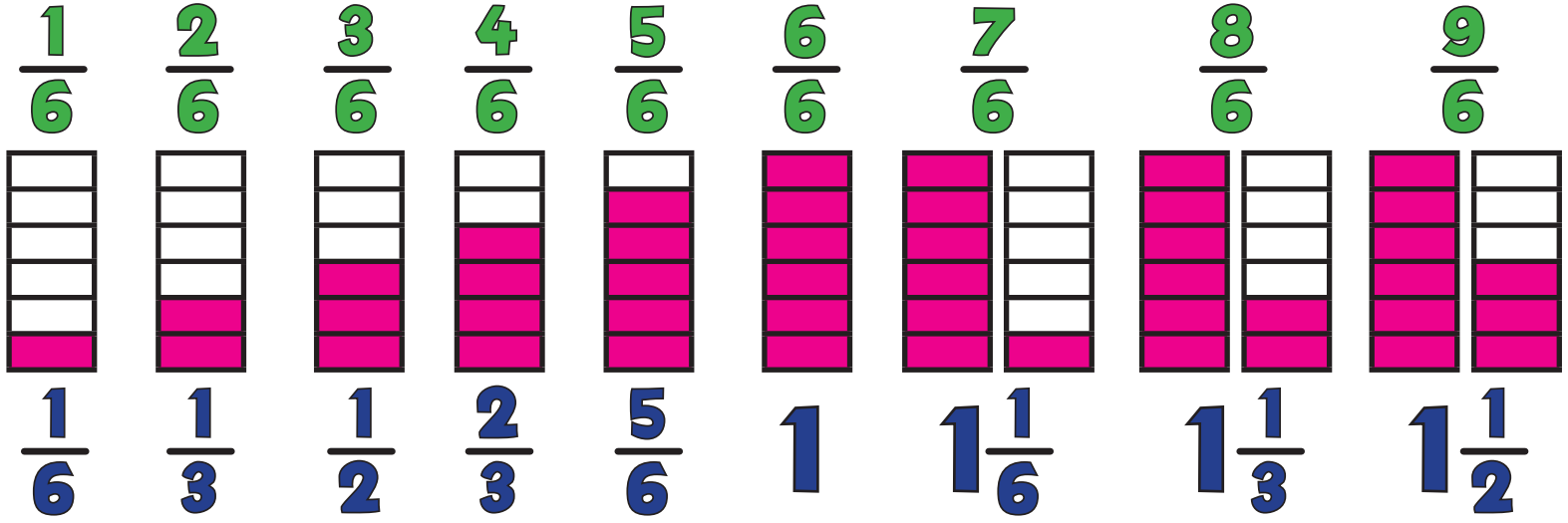
Newchurch C.P. School
Preparing To Fly

Newchurch Community Primary

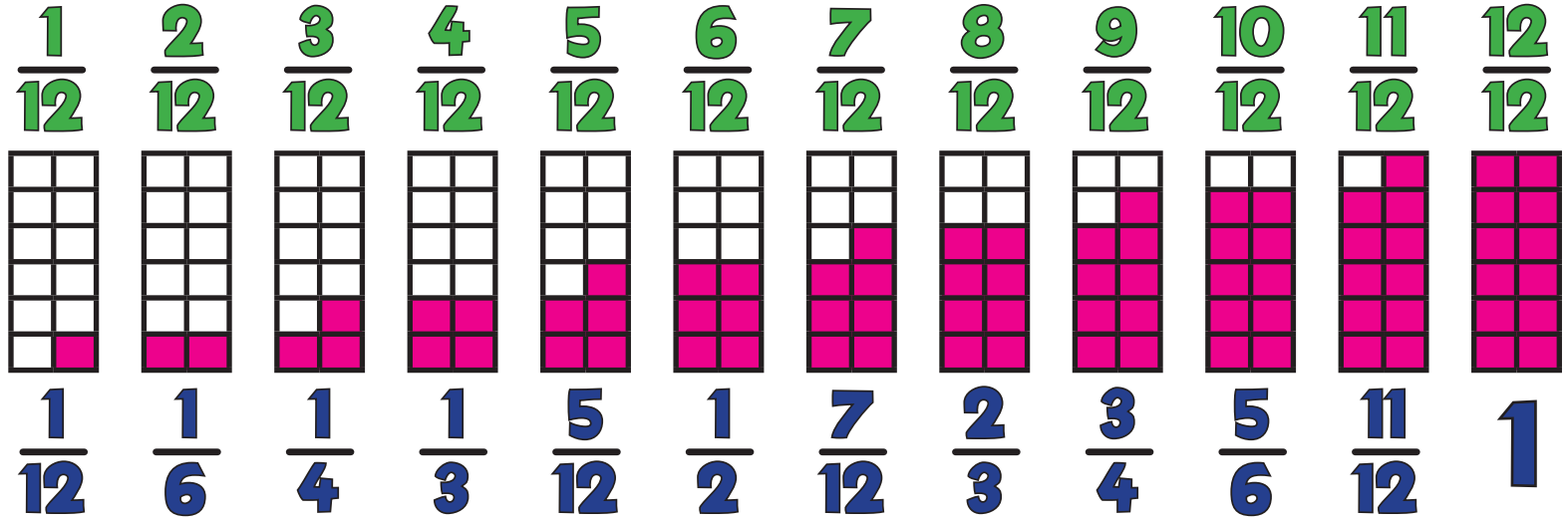
FA: Counting in Fractions

5a

$\frac{1}{6}$



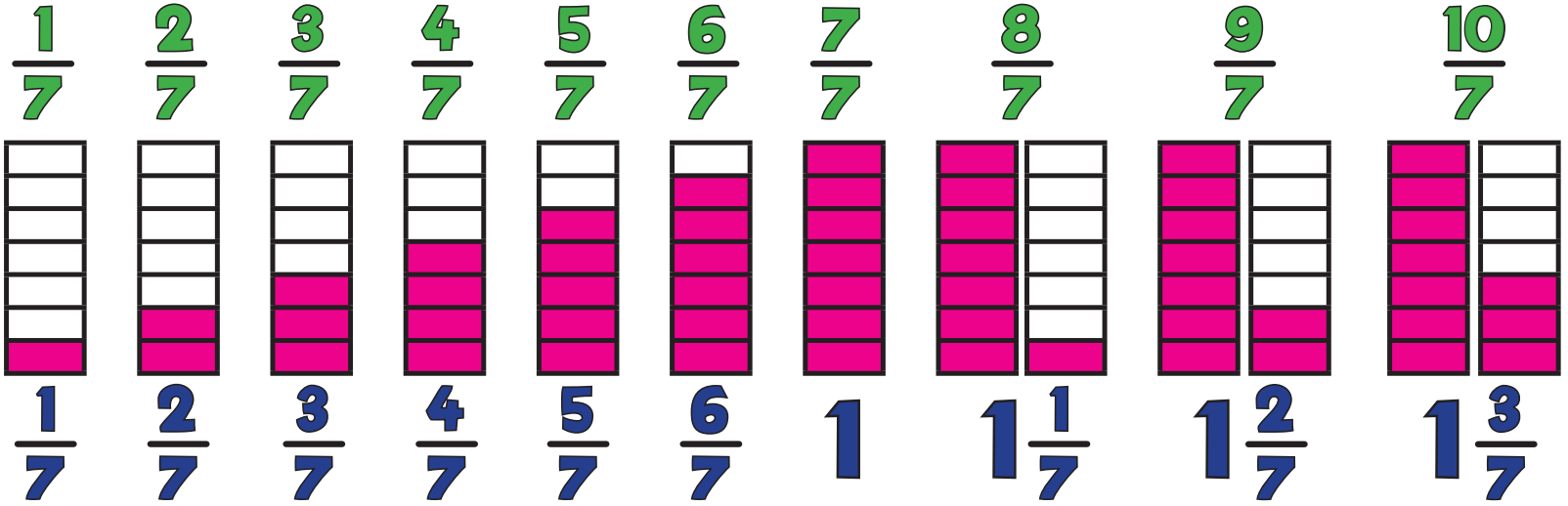
$\frac{1}{12}$



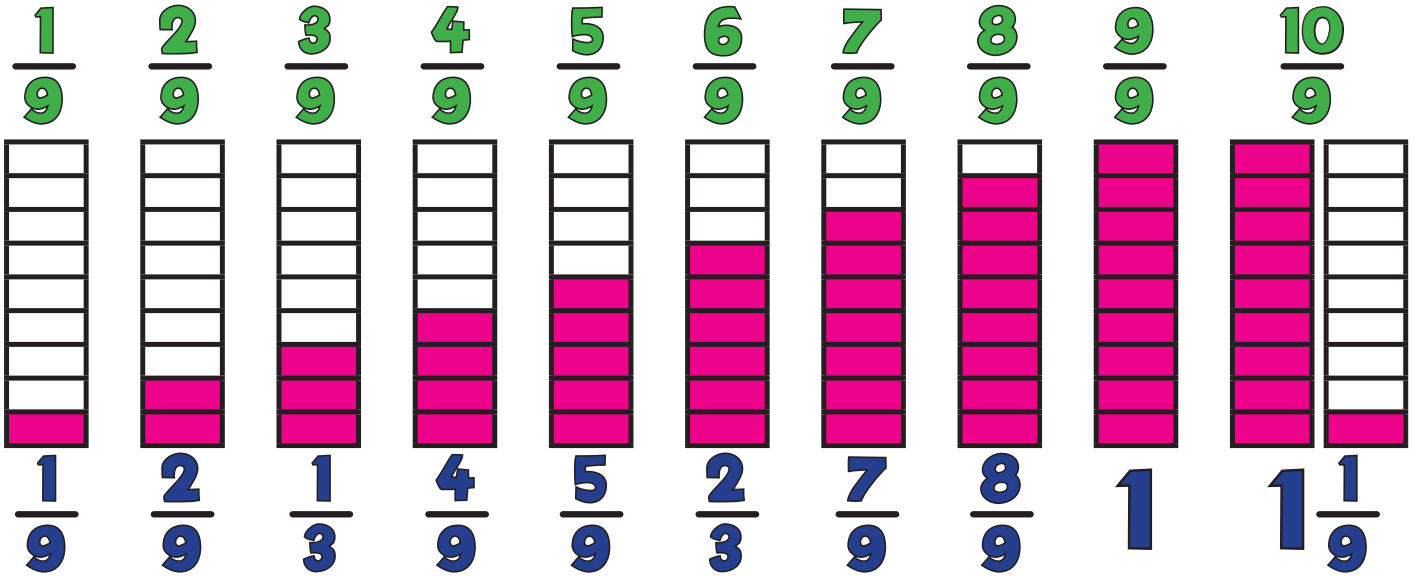
FA: Counting in Fractions

5b

$\frac{1}{7}$

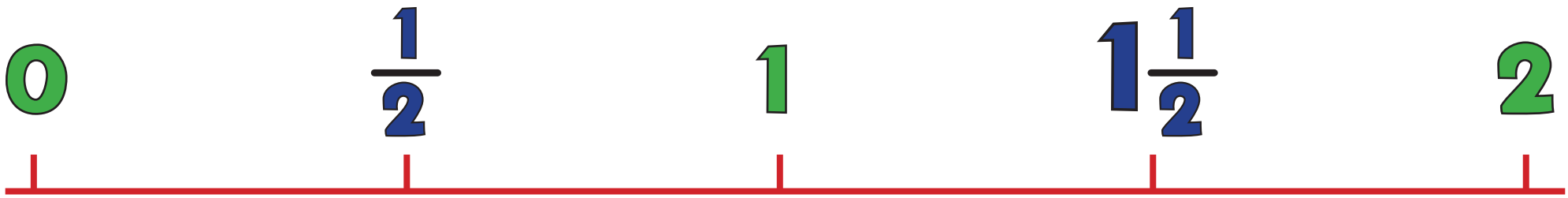


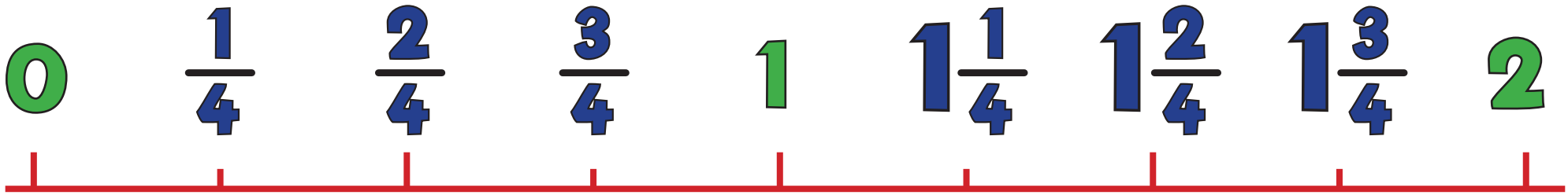
$\frac{1}{9}$



FB: Fractions as a Number

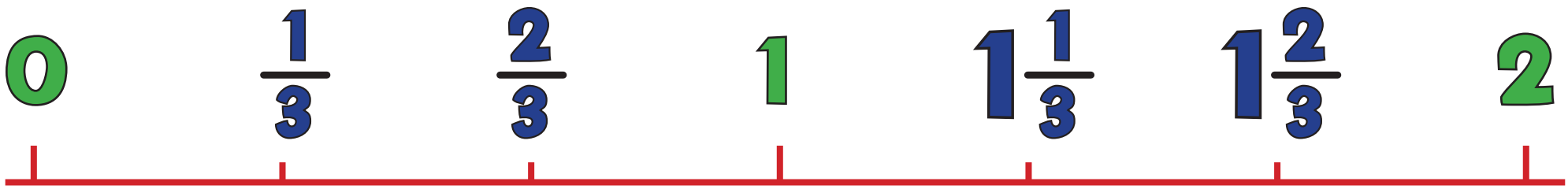
2

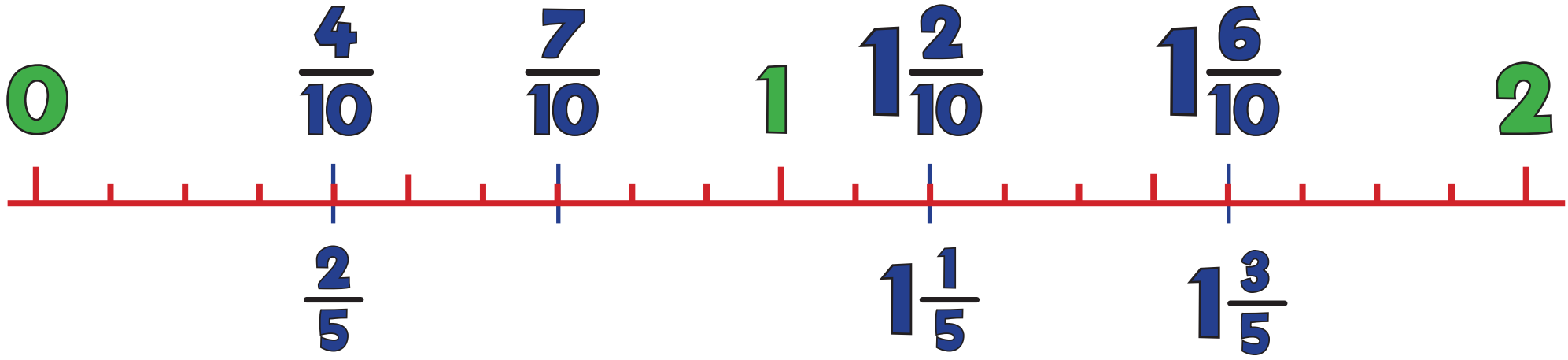




FB: Fractions as a Number

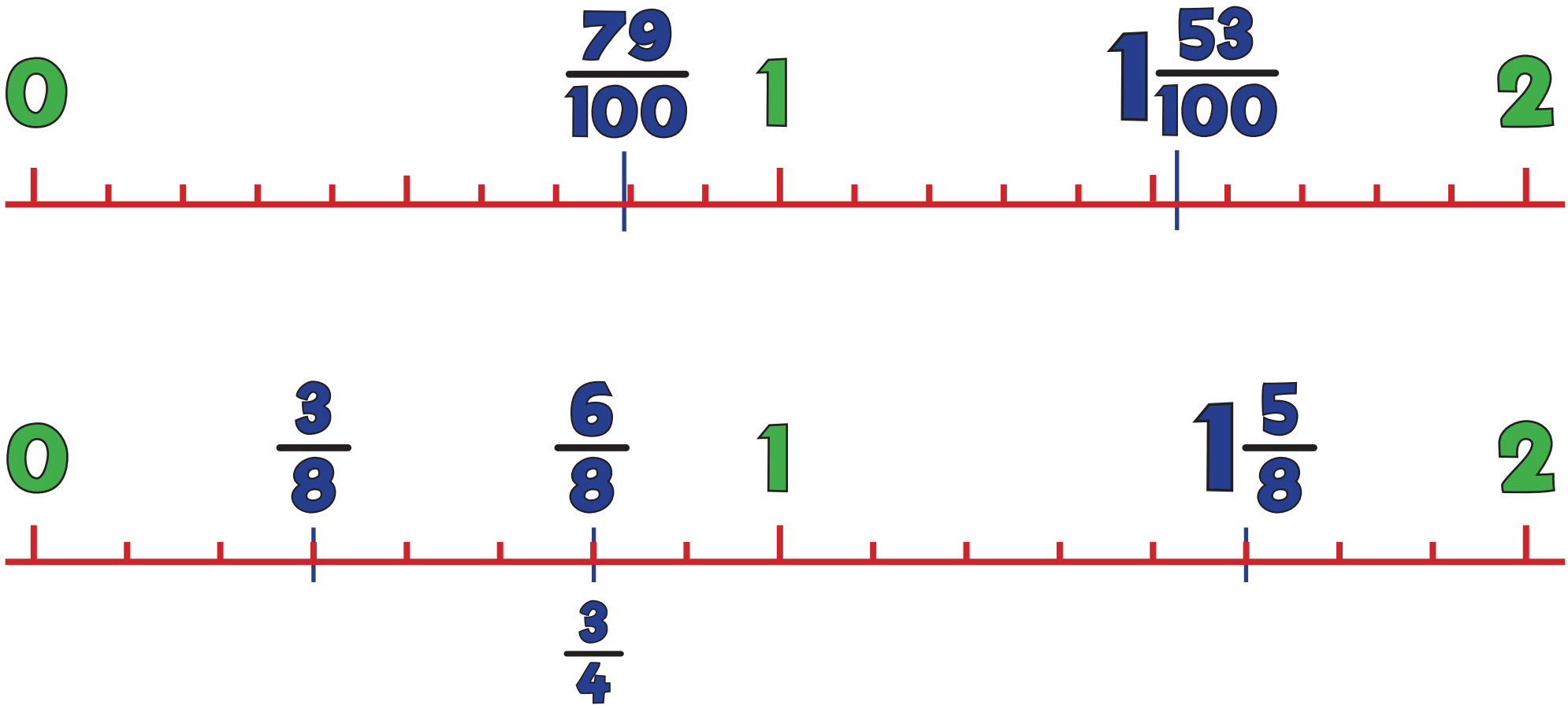
3





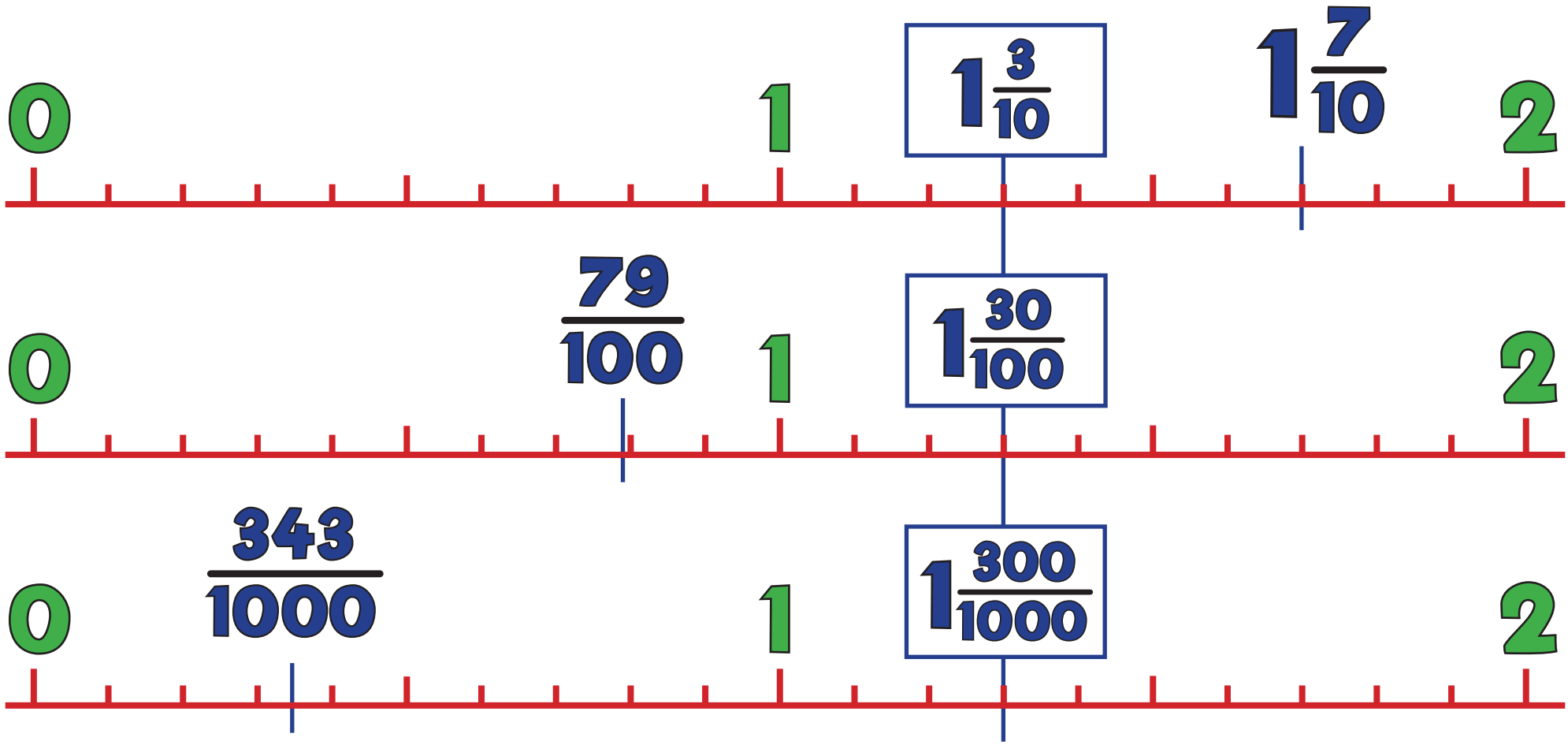
FB: Fractions as a Number

4



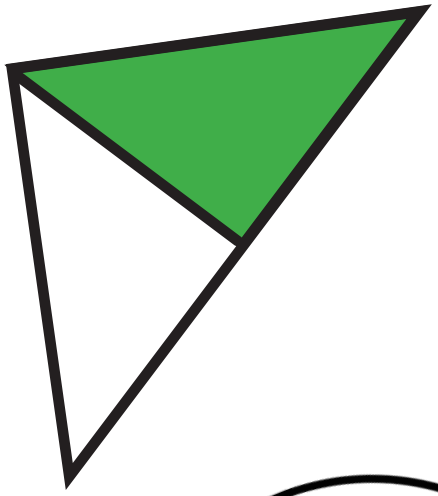
FB: Fractions as a Number

5

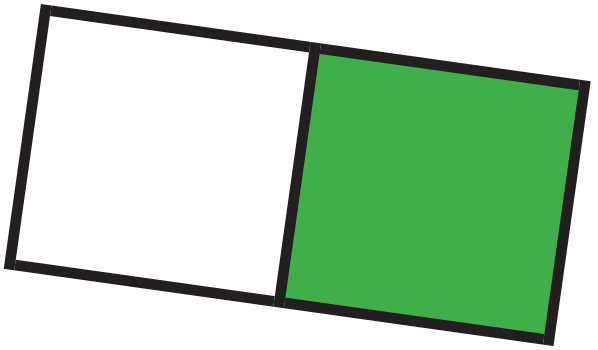


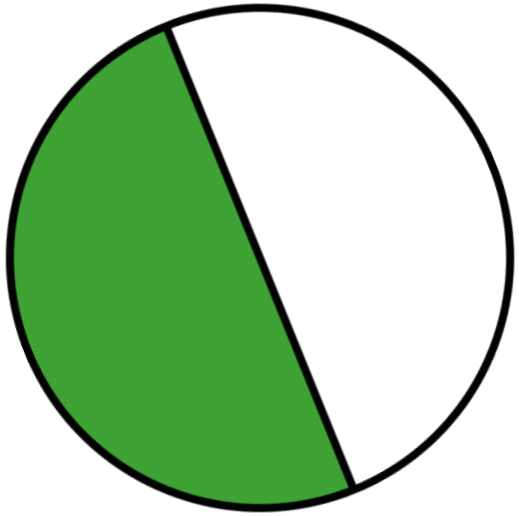
FC: Recognising Fractions

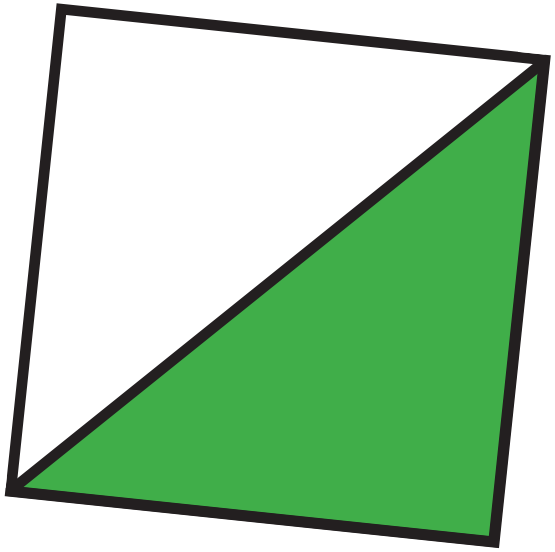
1a



$\frac{1}{2}$

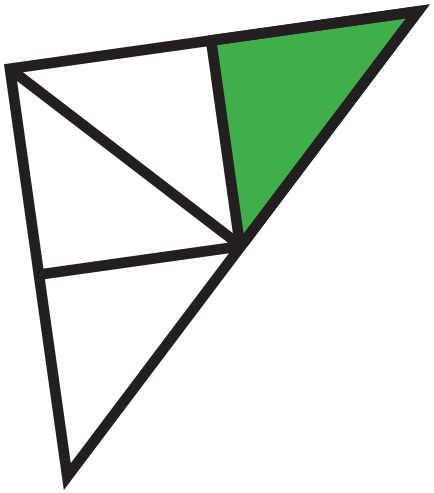




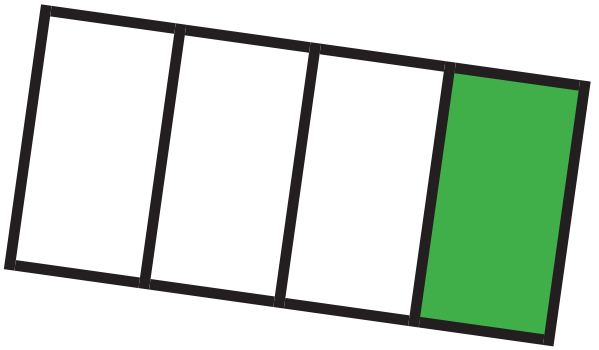


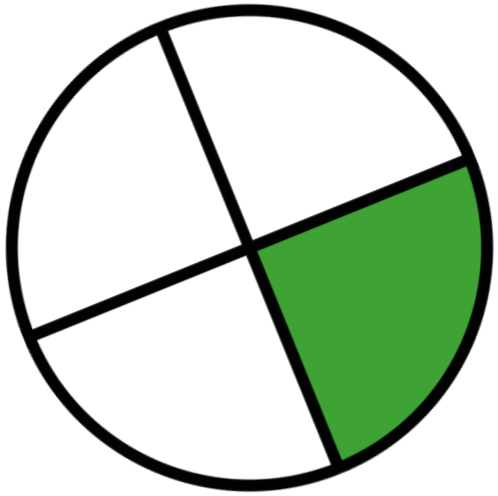
FC: Recognising Fractions

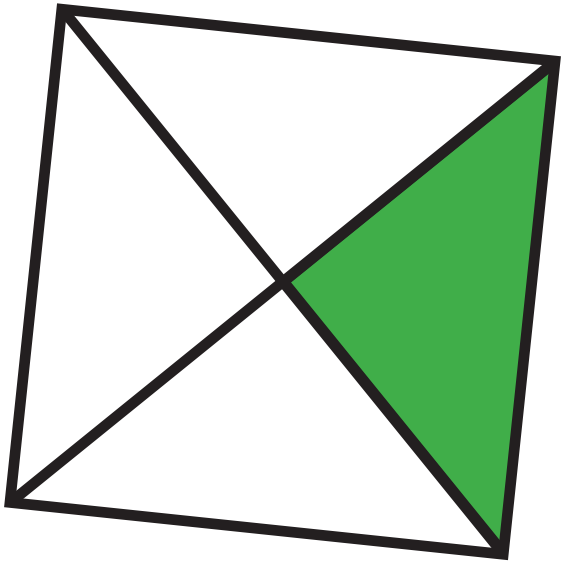
1b



$\frac{1}{4}$

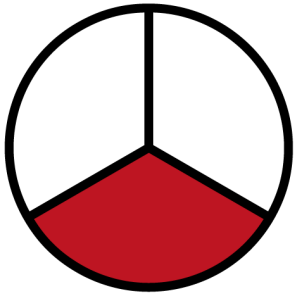




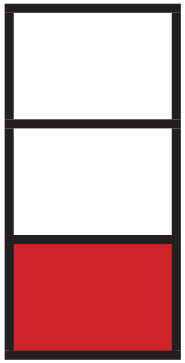


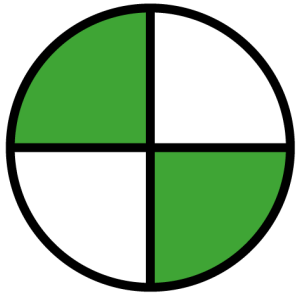
FC: Recognising Fractions

2a

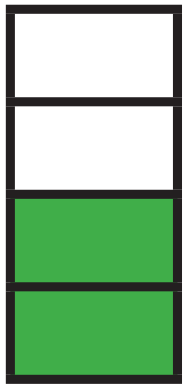


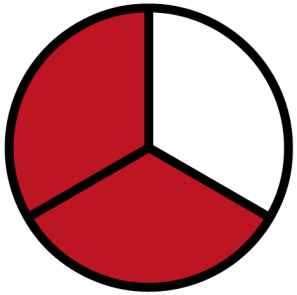
$\frac{1}{3}$



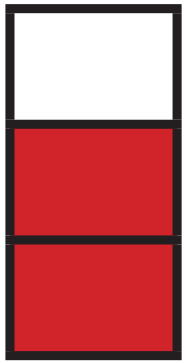


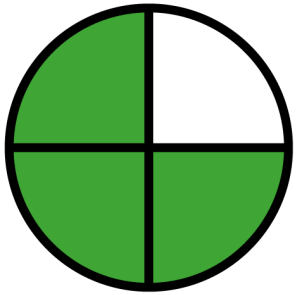
$\frac{2}{4}$



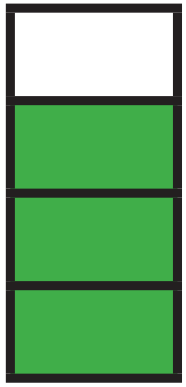


$\frac{2}{3}$



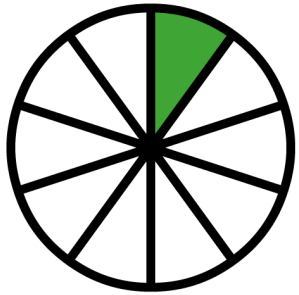


$\frac{3}{4}$

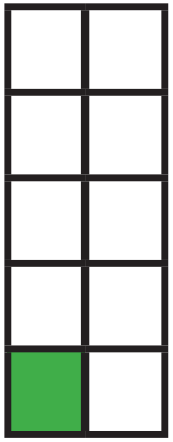


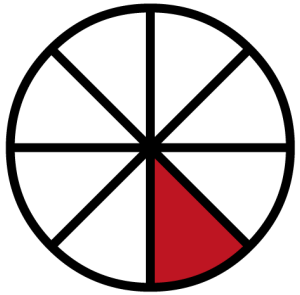
FC: Recognising Fractions

2b

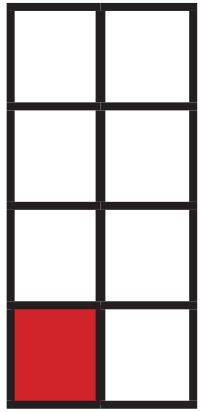


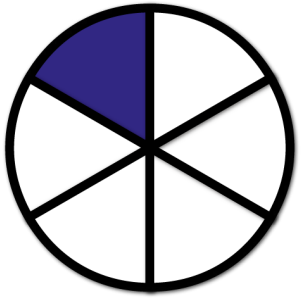
$\frac{1}{10}$



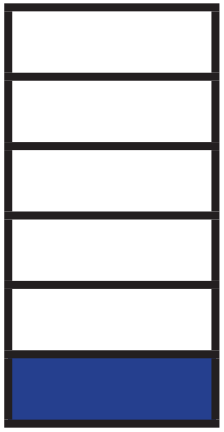


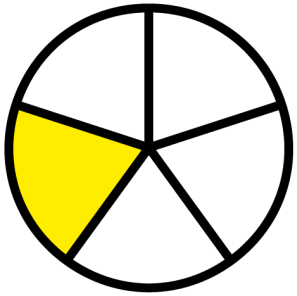
$\frac{1}{8}$



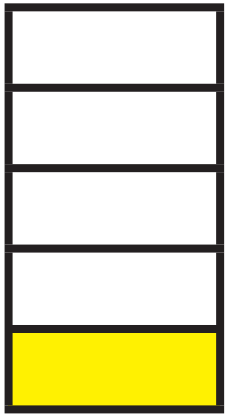


$\frac{1}{6}$



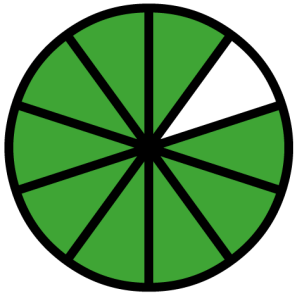


$\frac{1}{5}$

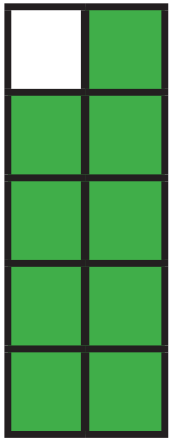


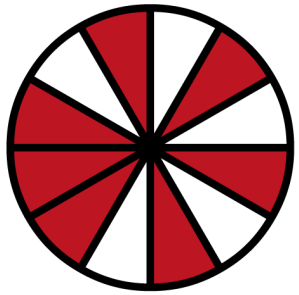
FC: Recognising Fractions

3a

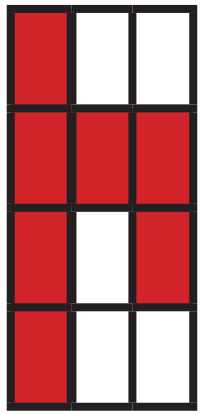


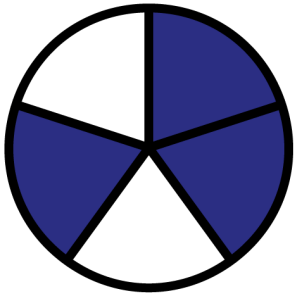
$\frac{9}{10}$



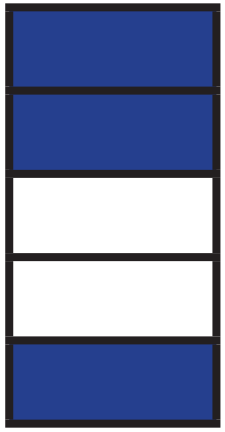


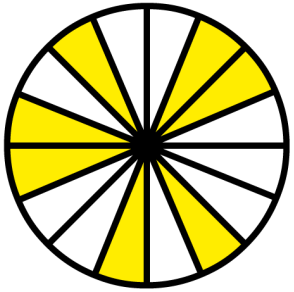
$\frac{7}{12}$



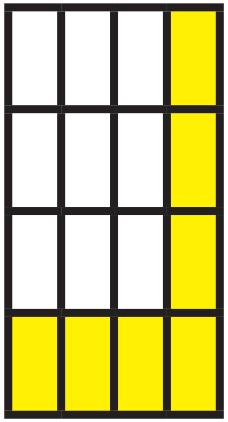


$\frac{3}{5}$



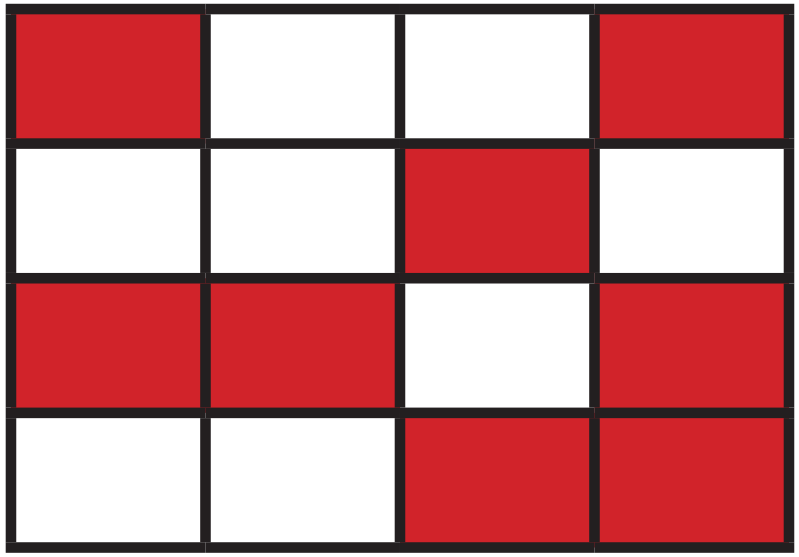


$\frac{7}{16}$

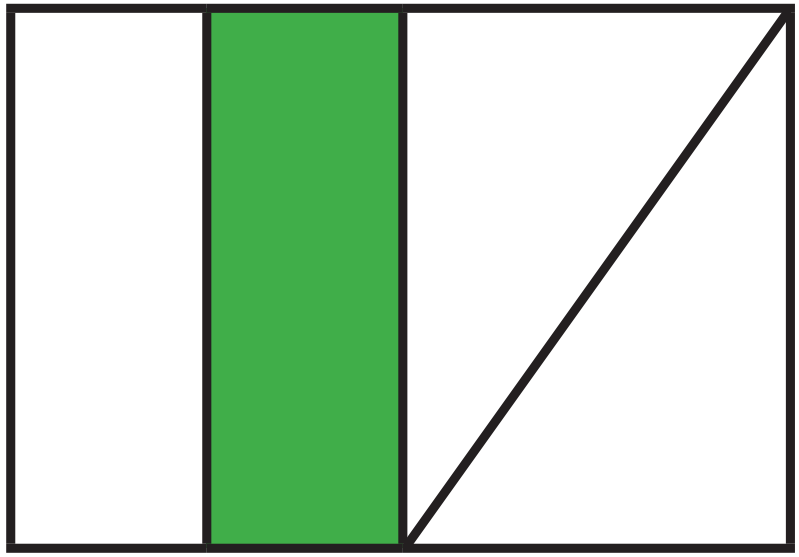


FC: Recognising Fractions

3b



$\frac{1}{2}$



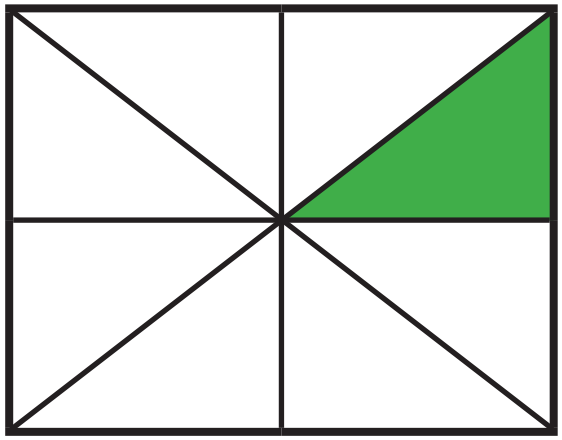
$\frac{1}{4}$

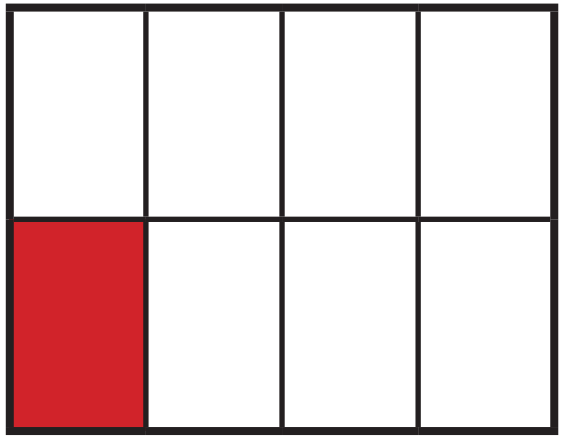
FC: Recognising Fractions

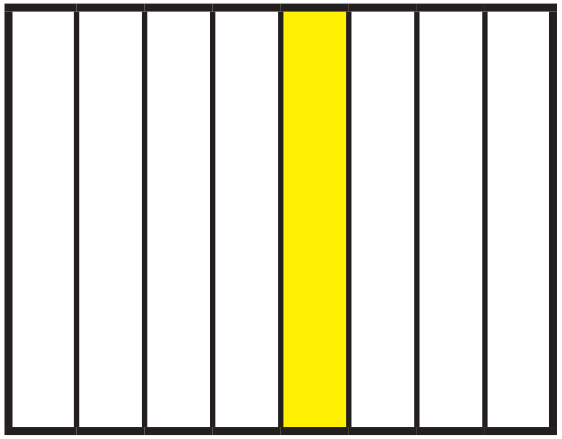
3c

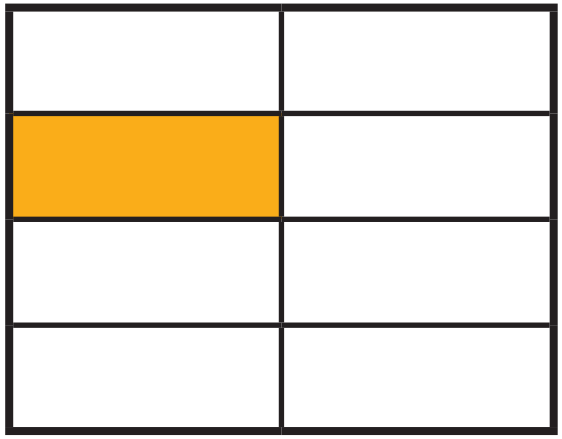
Eight Equal Eighths!

$\frac{1}{8}$



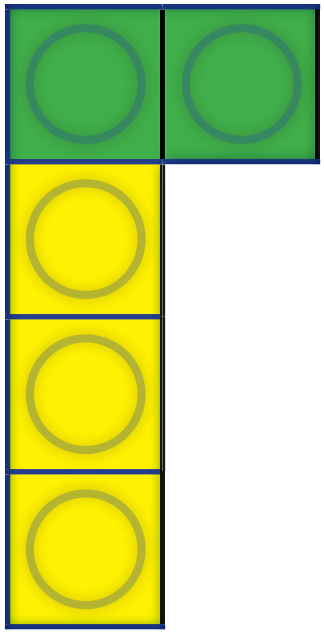




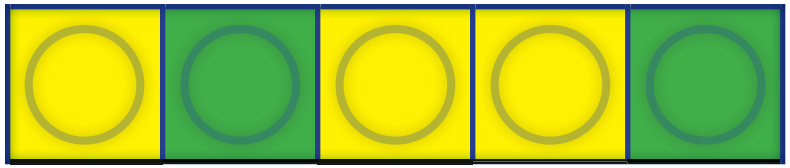


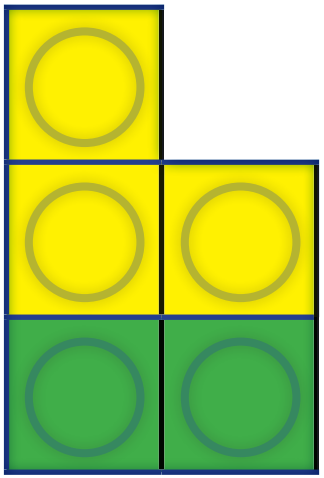
FC: Recognising Fractions

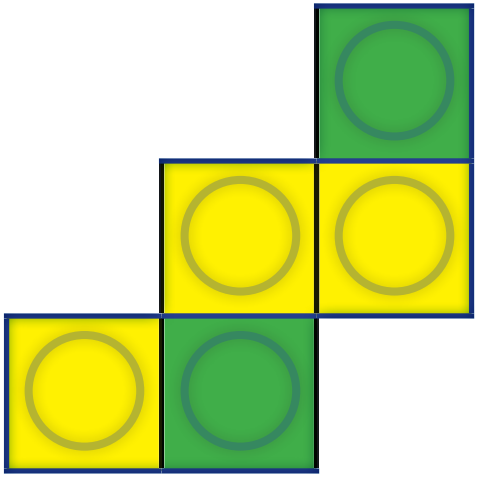
3d



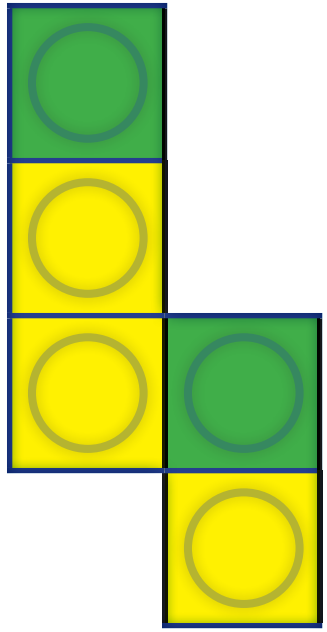
$\frac{2}{5}$





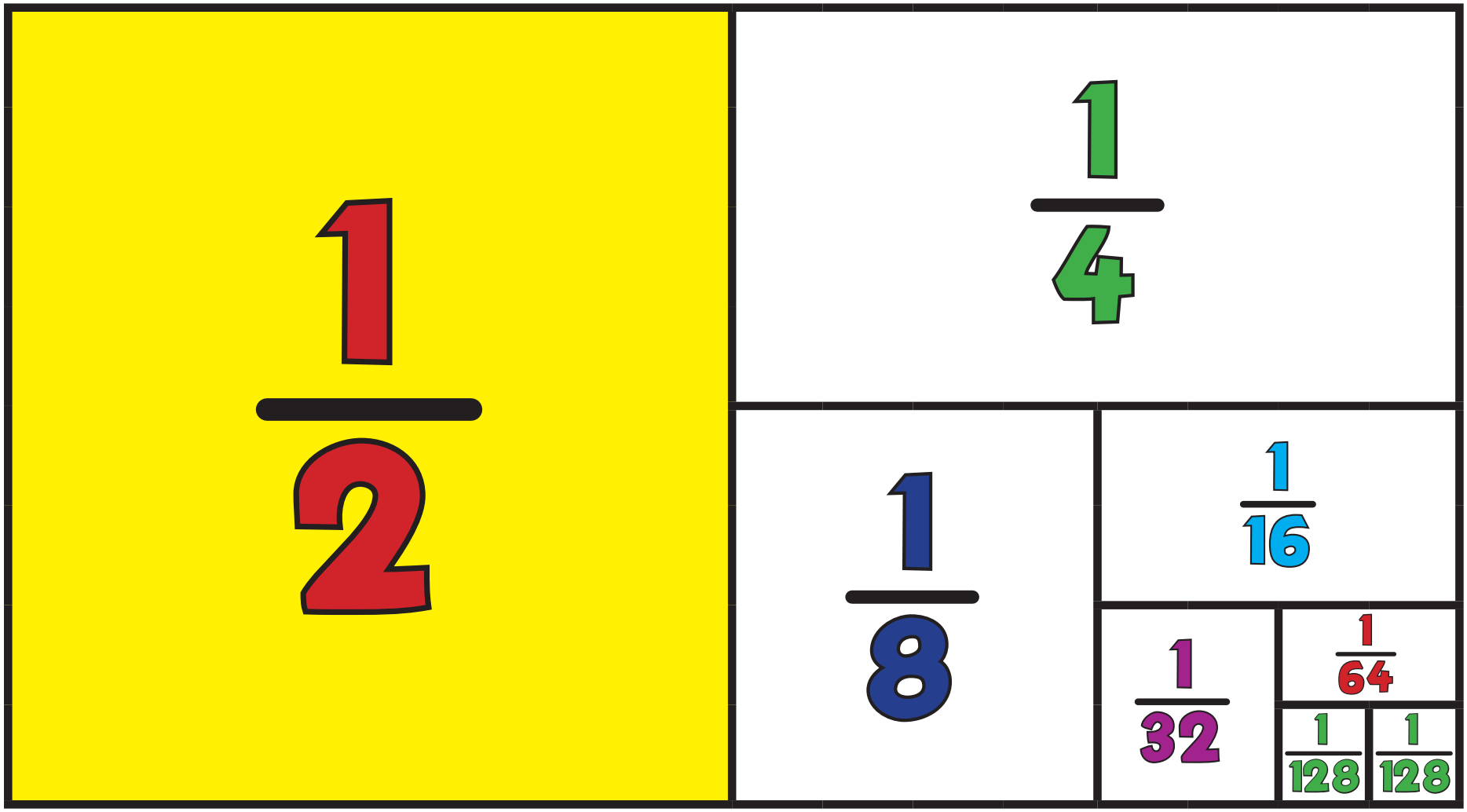


$\frac{3}{5}$



FC: Recognising Fractions

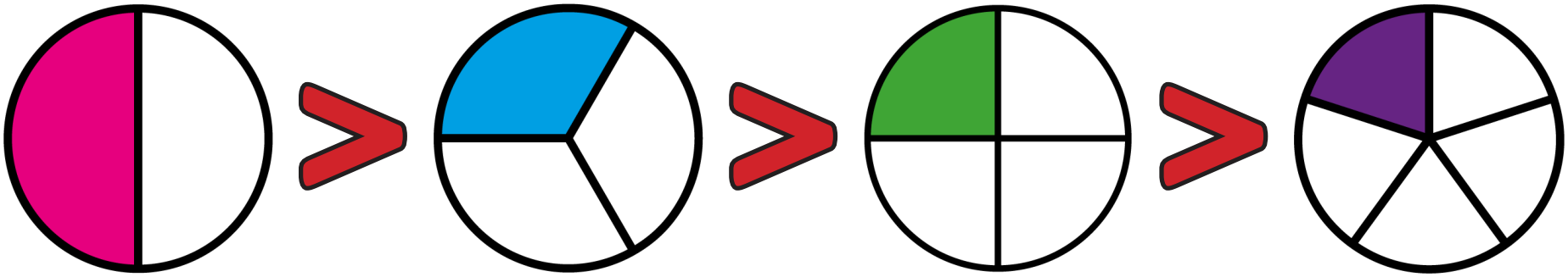
4



FD: Ordering Fractions

3a

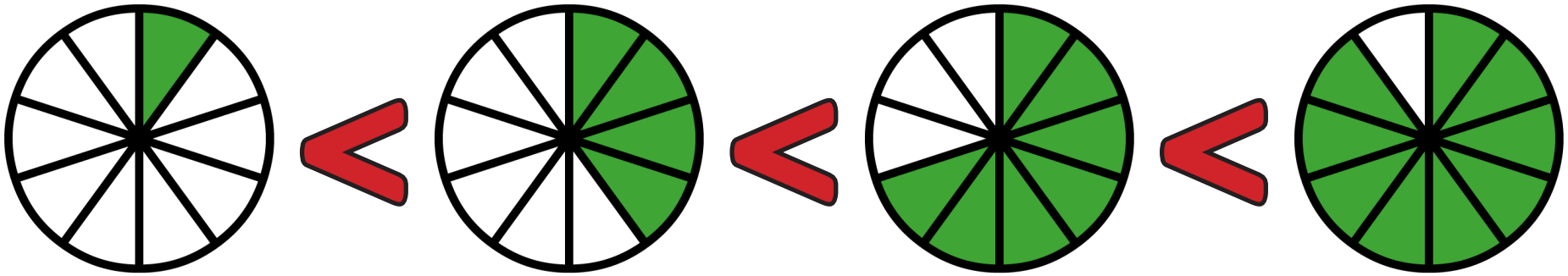
$$\frac{1}{2} > \frac{1}{3} > \frac{1}{4} > \frac{1}{5}$$



FD: Ordering Fractions

3b

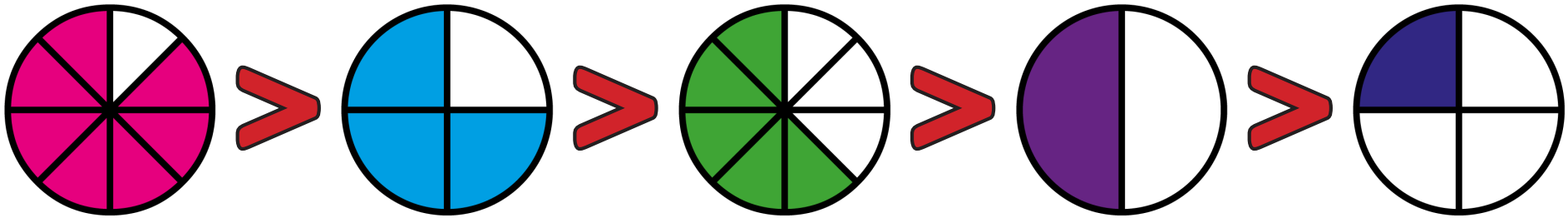
$$\frac{1}{10} < \frac{4}{10} < \frac{7}{10} < \frac{9}{10}$$



FD: Ordering Fractions

5a

$$\frac{7}{8} > \frac{3}{4} > \frac{5}{8} > \frac{1}{2} > \frac{1}{4}$$

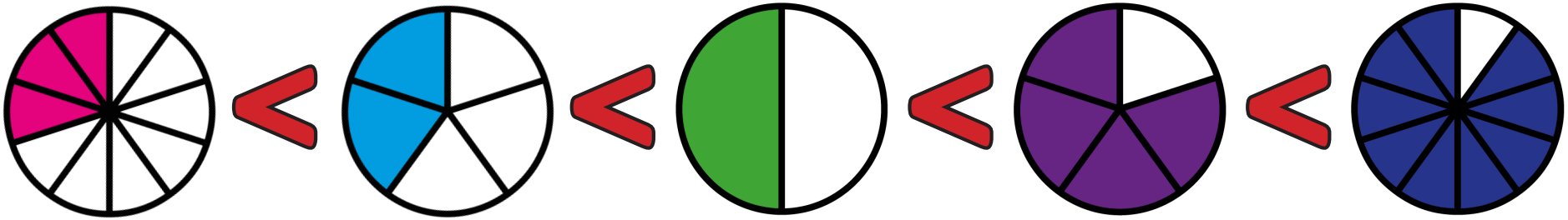


0.875 > 0.75 > 0.625 > 0.5 > 0.25

FD: Ordering Fractions

5b

$$\frac{3}{10} < \frac{2}{5} < \frac{1}{2} < \frac{4}{5} < \frac{9}{10}$$



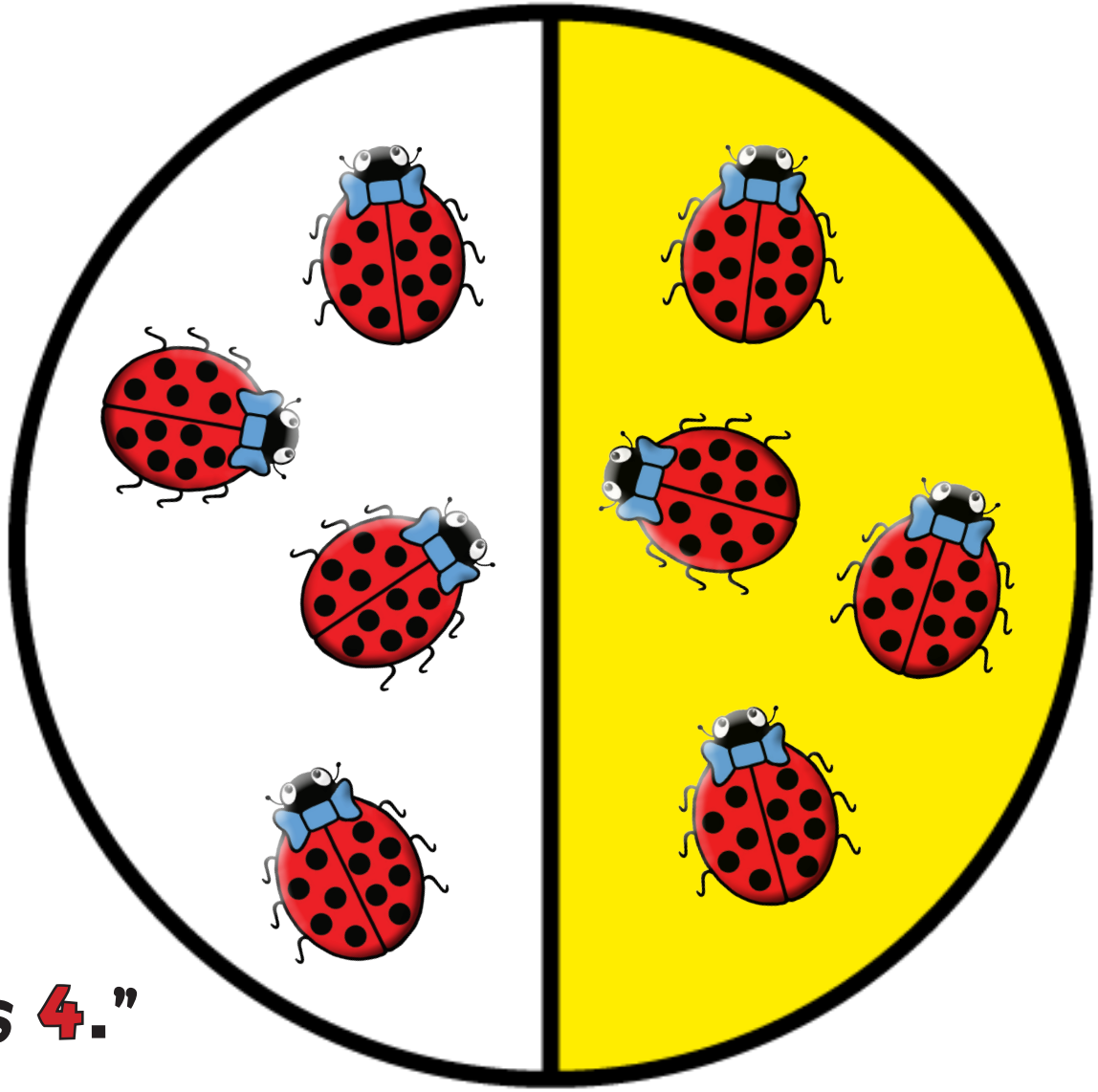
$$0.3 < 0.4 < 0.5 < 0.8 < 0.9$$

FE: Fraction of a Quantity

FS

8

$\frac{1}{2}$



$\frac{1}{2}$

"Half of 8 is 4."

Newchurch C.P. School
Preparing To Fly

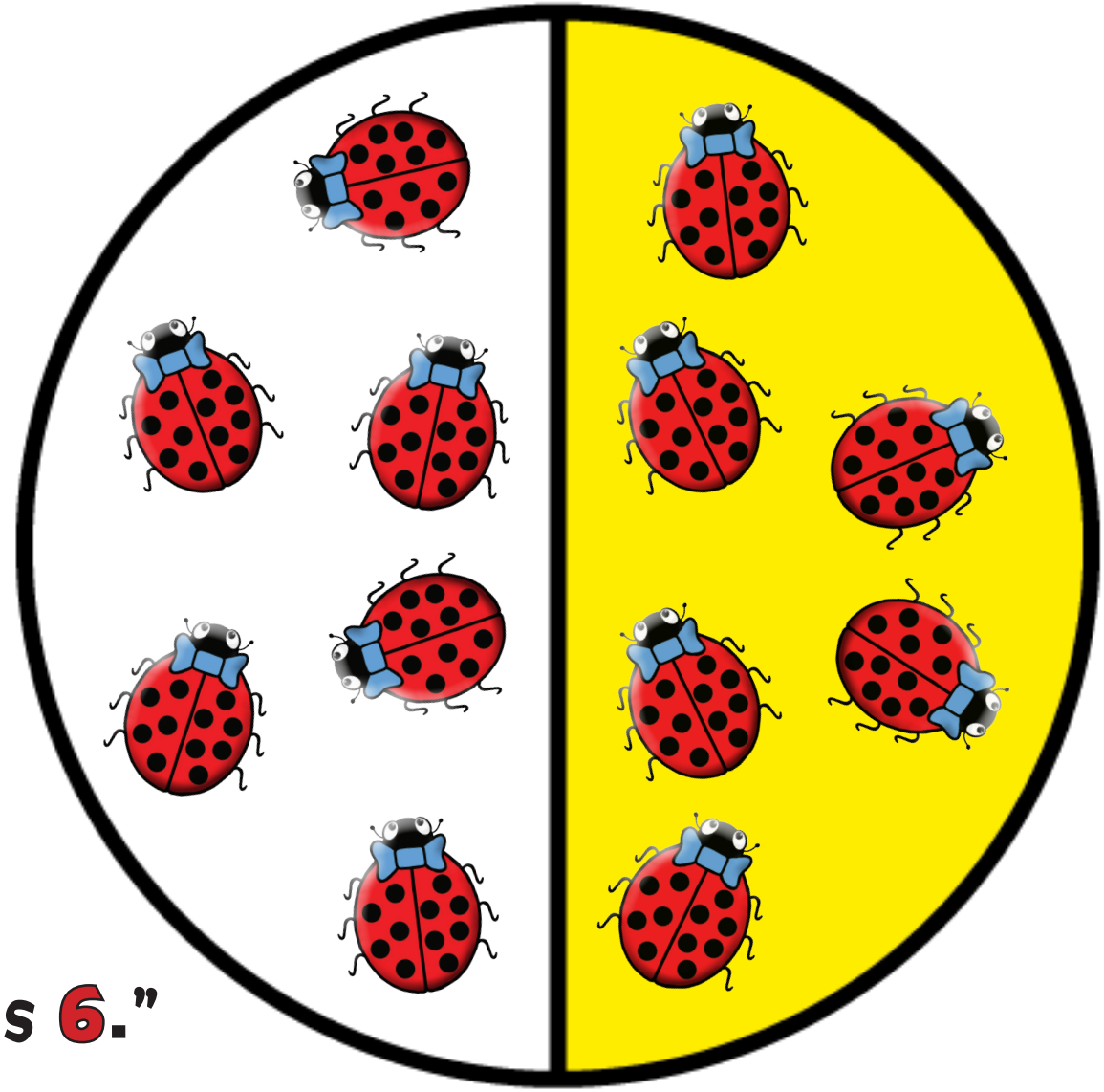
Newchurch Community Primary

FE: Fraction of a Quantity

1a

12

$\frac{1}{2}$



$\frac{1}{2}$

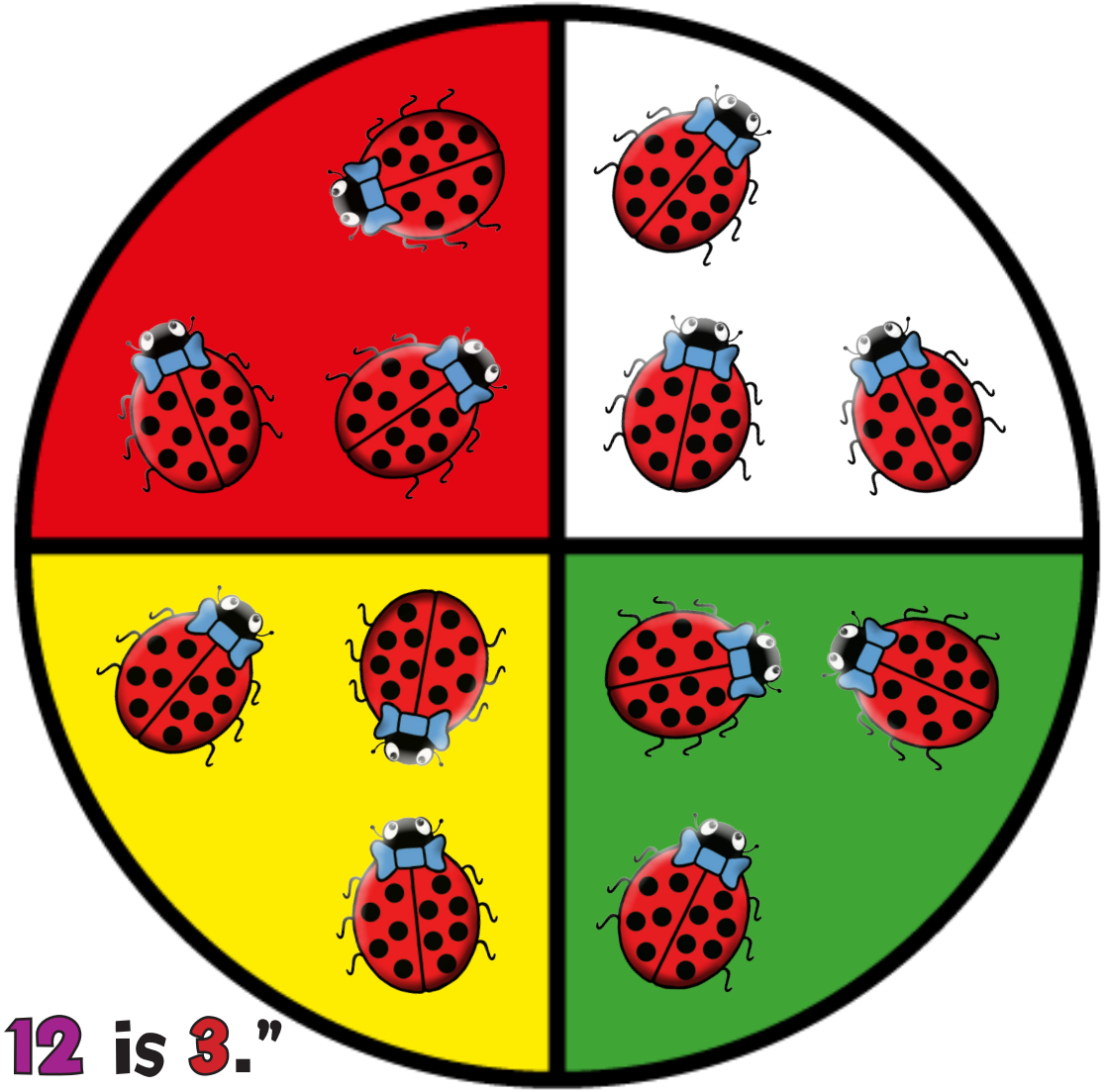
"Half of 12 is 6."

Newchurch Community Primary

FE: Fraction of a Quantity

1b

12



"A quarter of 12 is 3."

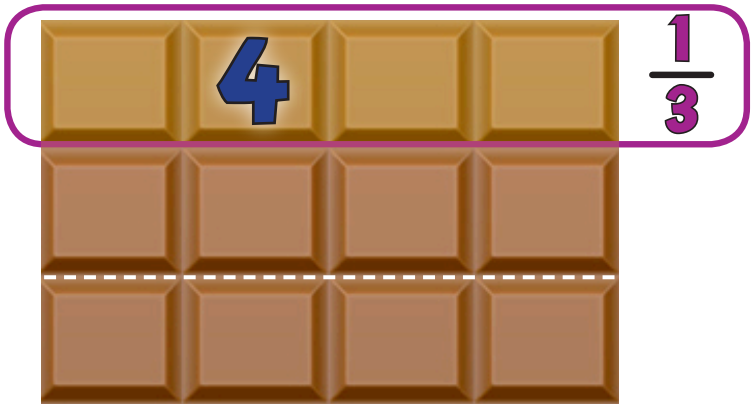
Newchurch C.P. School Preparing To Fly

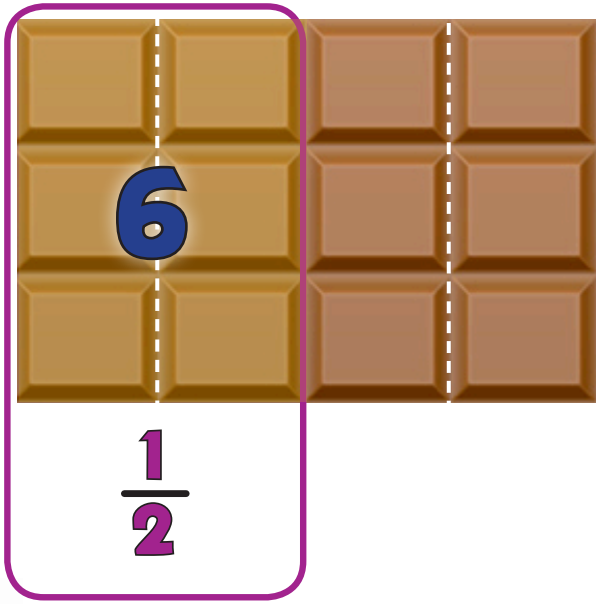
Newchurch Community Primary

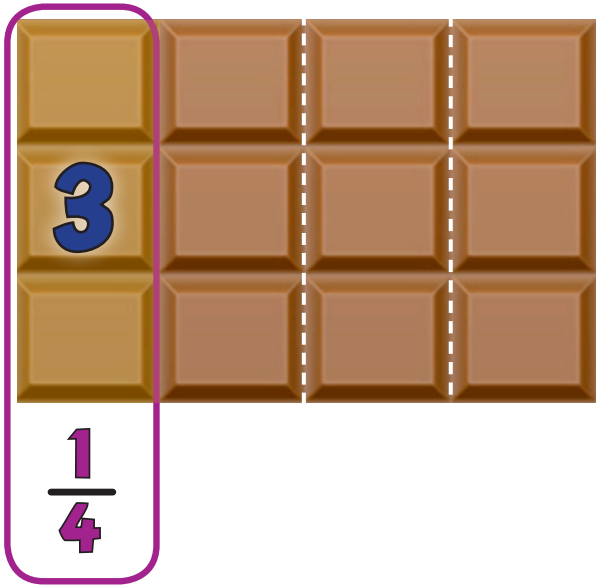
FE: Fraction of a Quantity

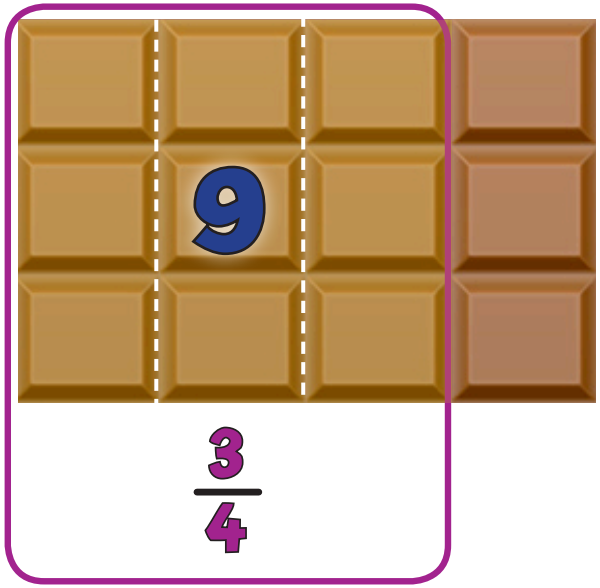
2

12 Chunks







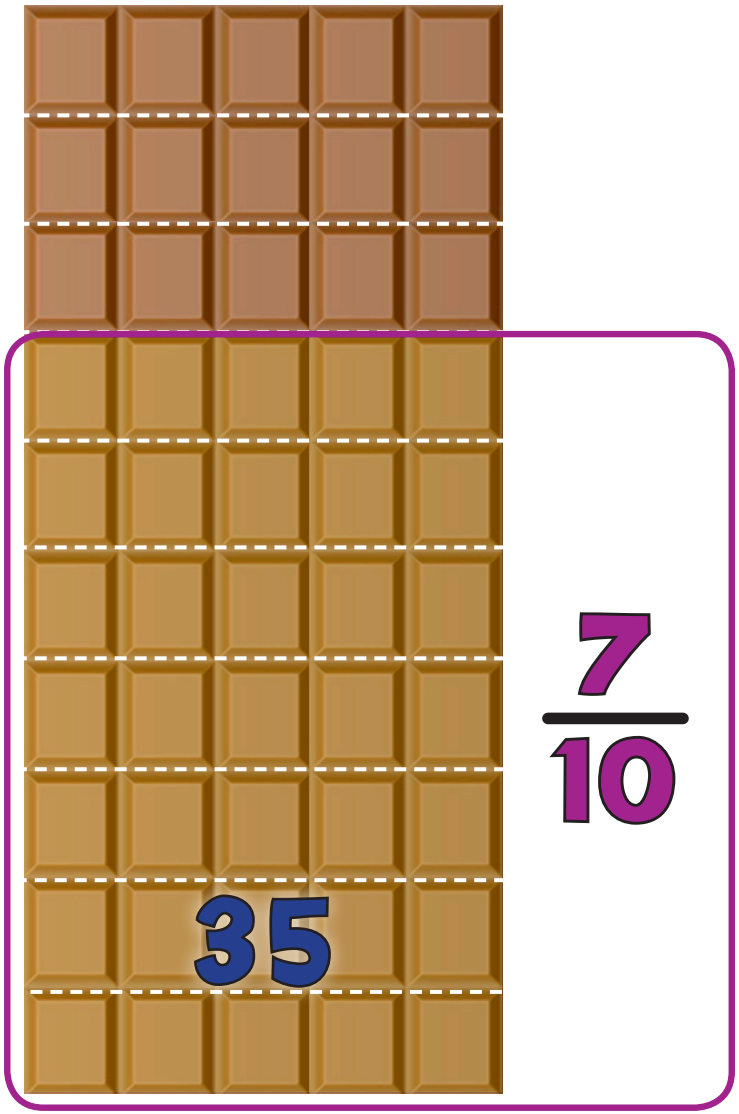


Newchurch Community Primary

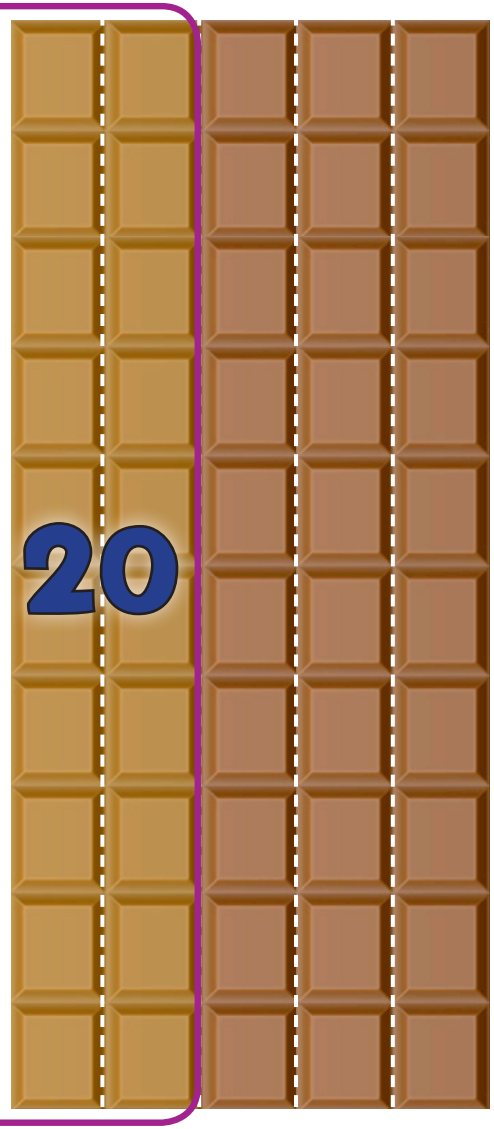
FE: Fraction of a Quantity

3

50
Chunks



$\frac{7}{10}$



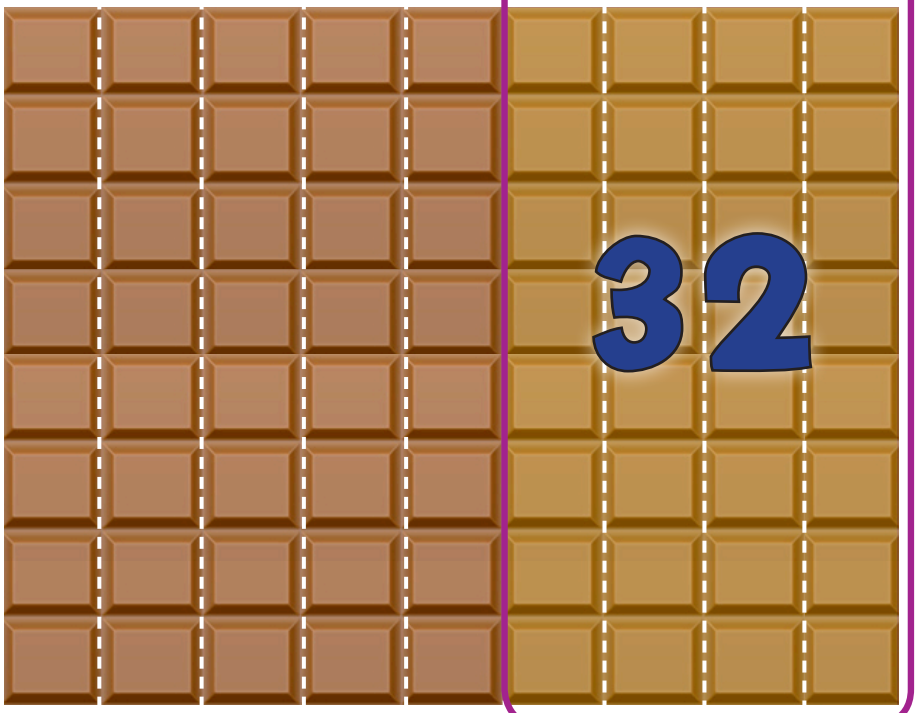
$\frac{2}{5}$ **20**

FE: Fraction of a Quantity

4

72
Chunks

$\frac{4}{9}$



$\frac{7}{8}$

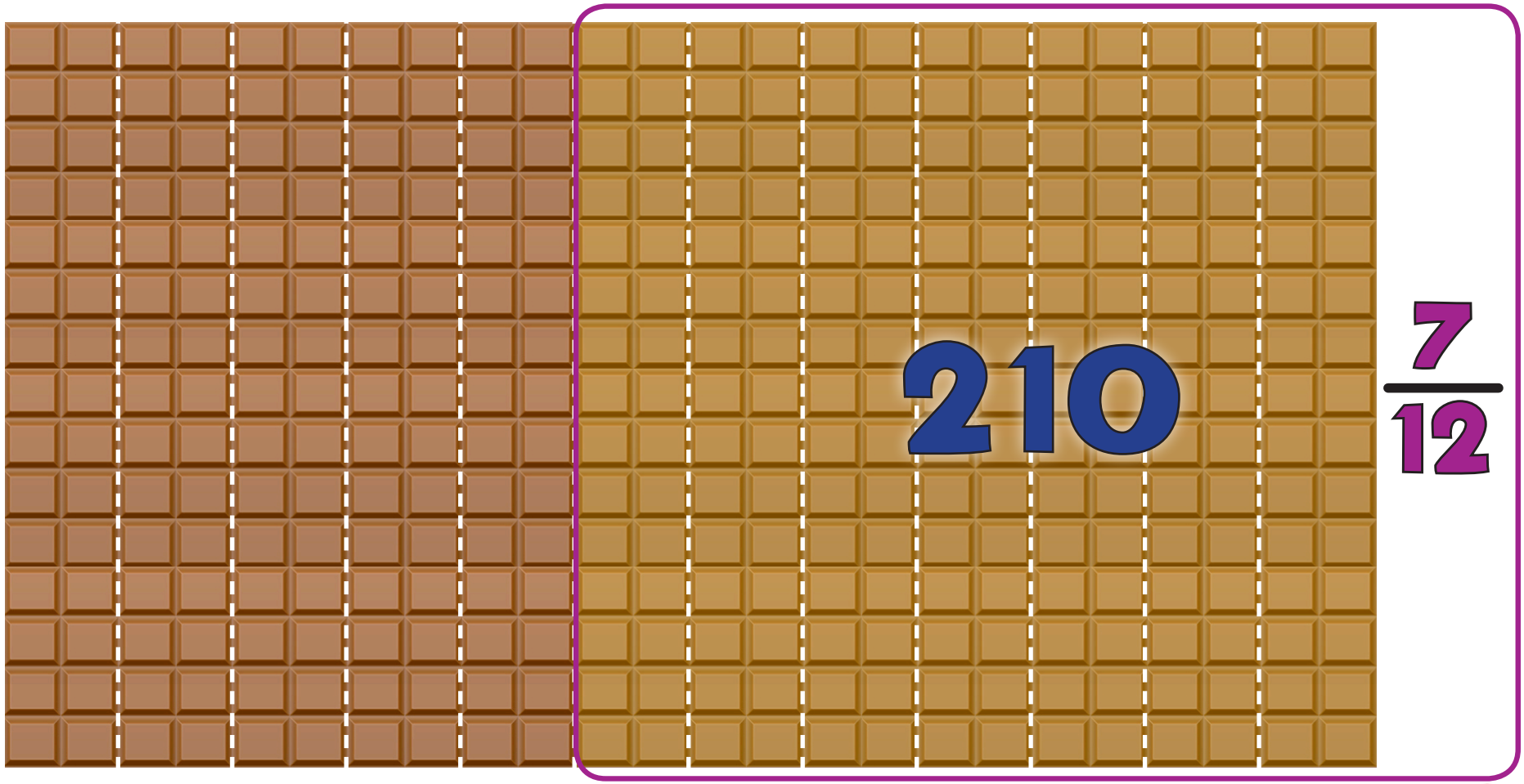
Newchurch C.P. School
Preparing To Fly

Newchurch Community Primary

FE: Fraction of a Quantity

5

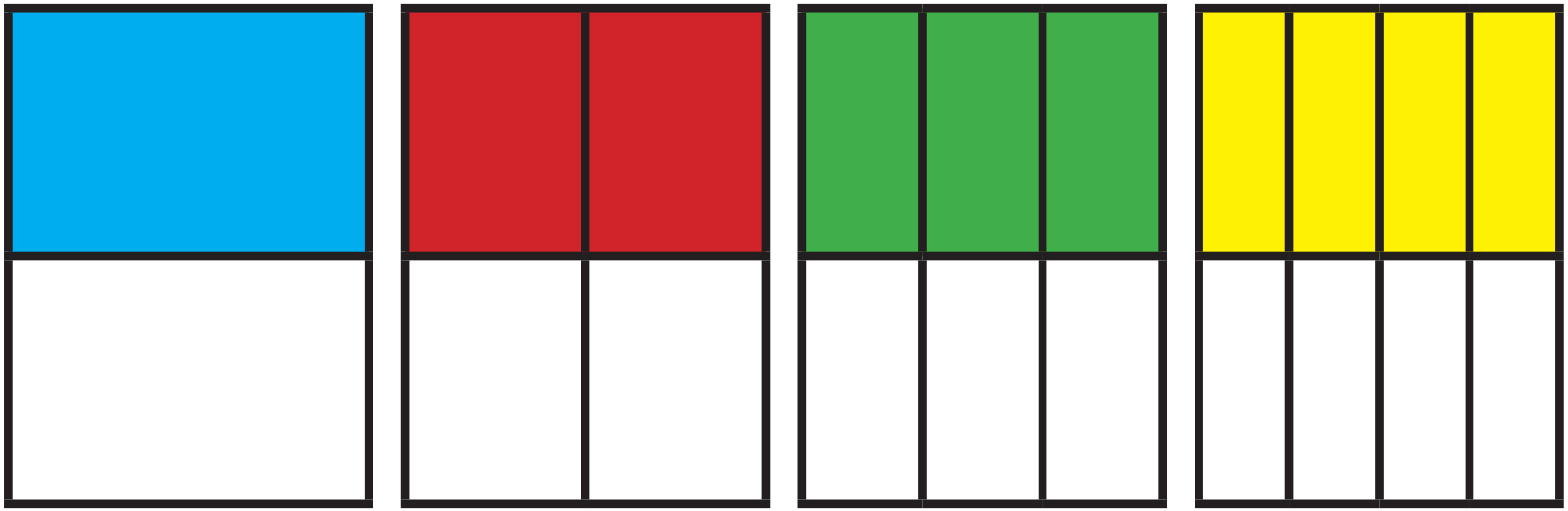
360 Chunks



Newchurch Community Primary

FF: Equivalent Fractions

2a



$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$$

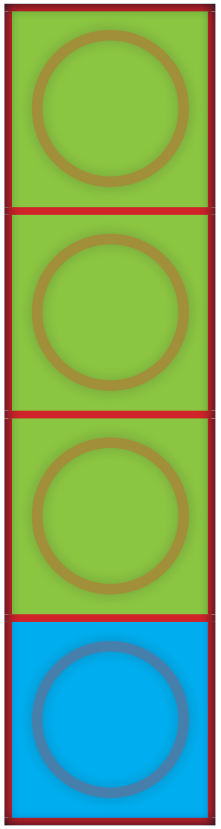
Newchurch C.P. School
Preparing To Fly

Newchurch Community Primary

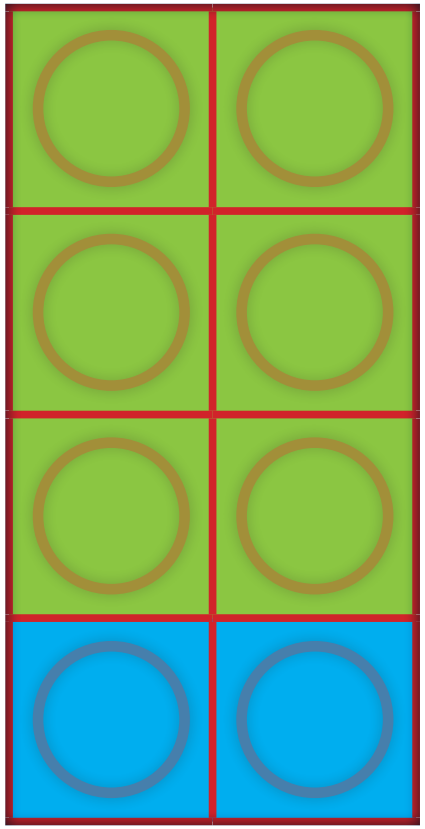
FF: Equivalent Fractions

2b

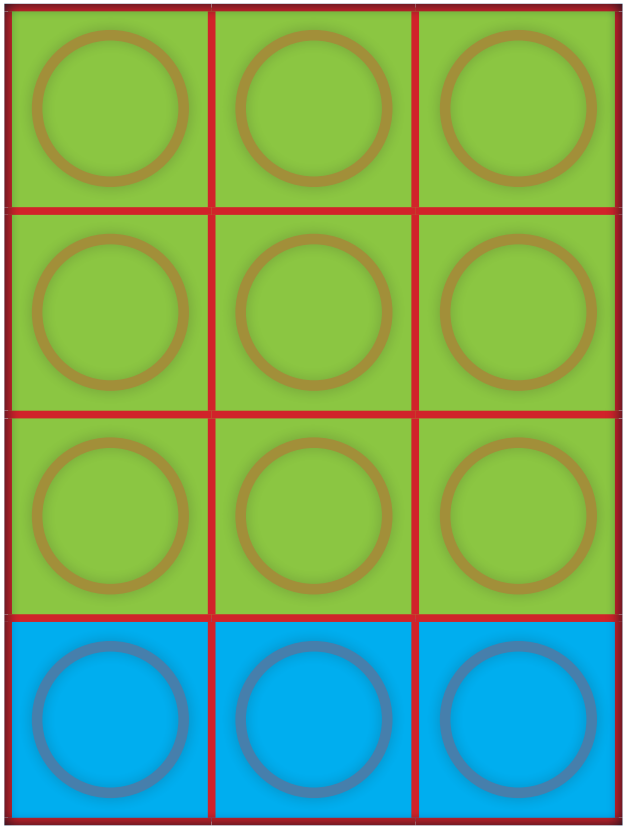
$\frac{1}{4}$



$\frac{1}{4}$ $\left(\frac{2}{8}\right)$

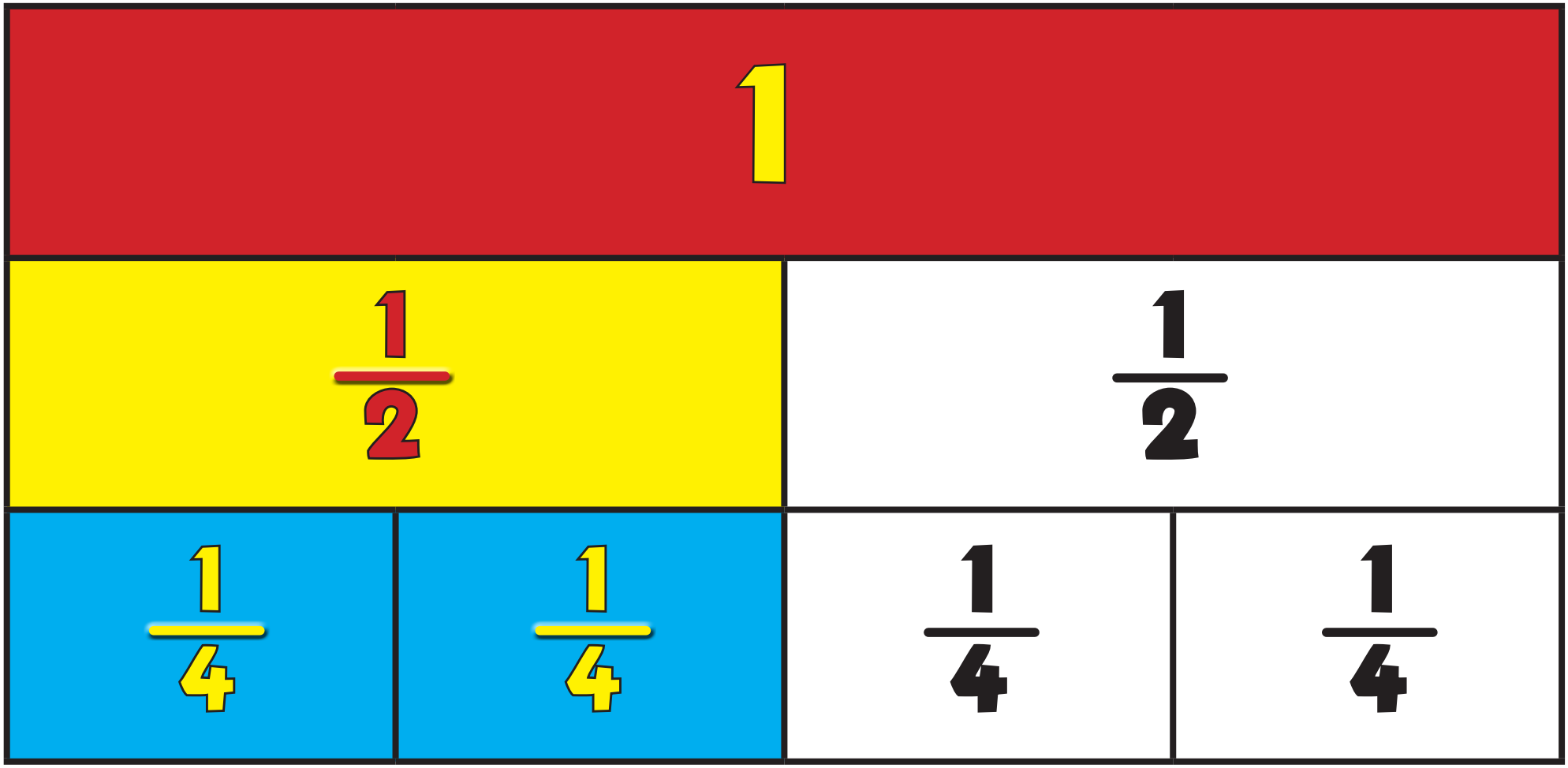


$\frac{1}{4}$ $\left(\frac{3}{12}\right)$



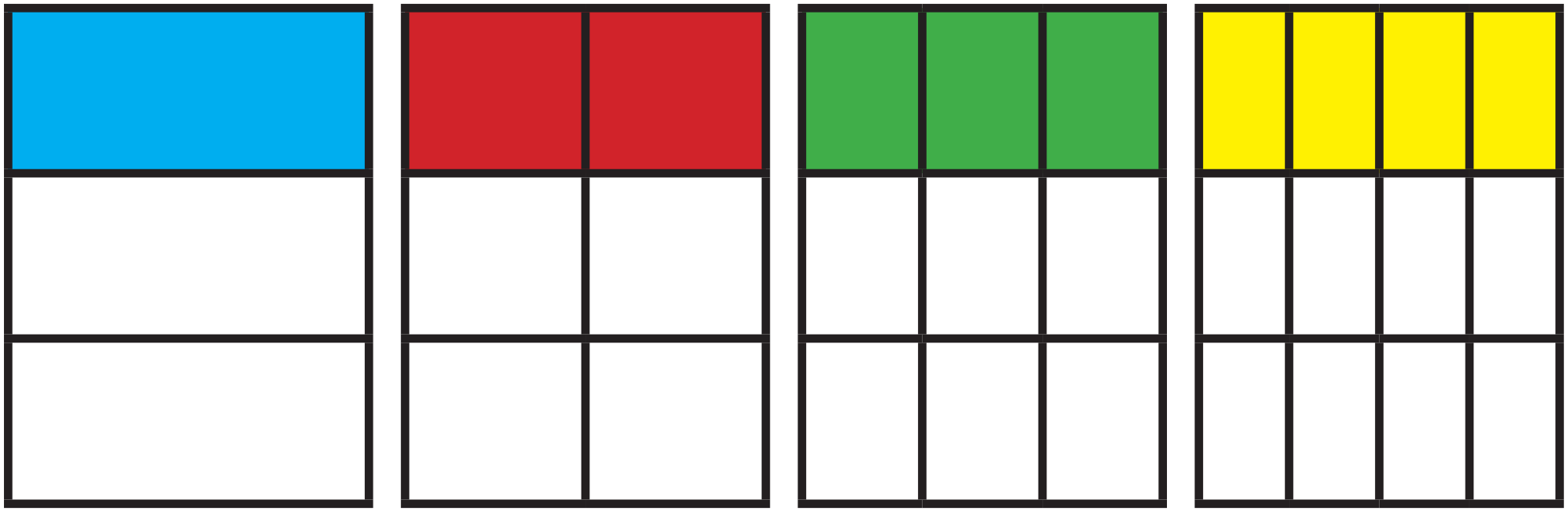
FF: Equivalent Fractions

2c



FF: Equivalent Fractions

3a

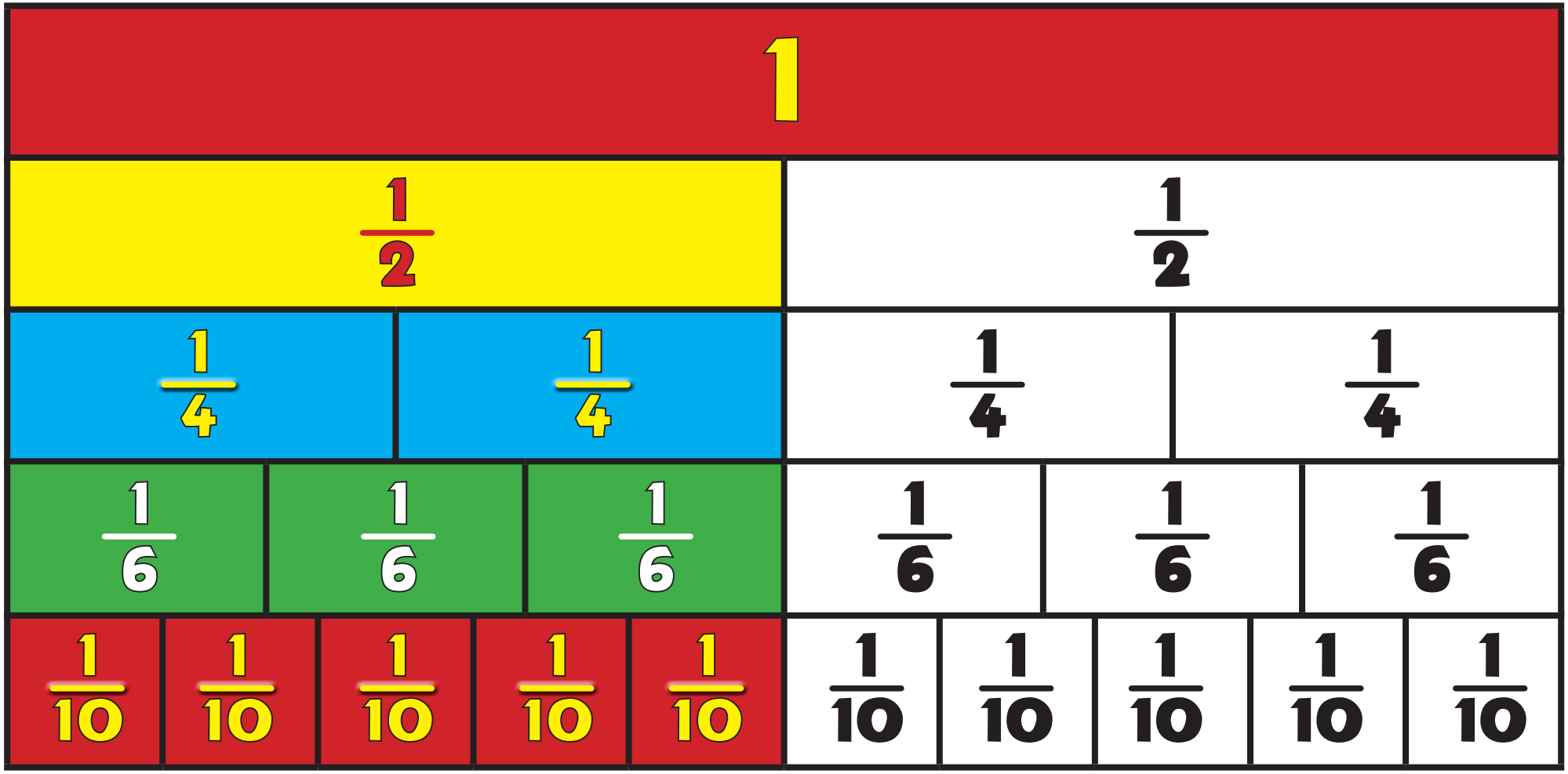


$$\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$$

Newchurch Community Primary

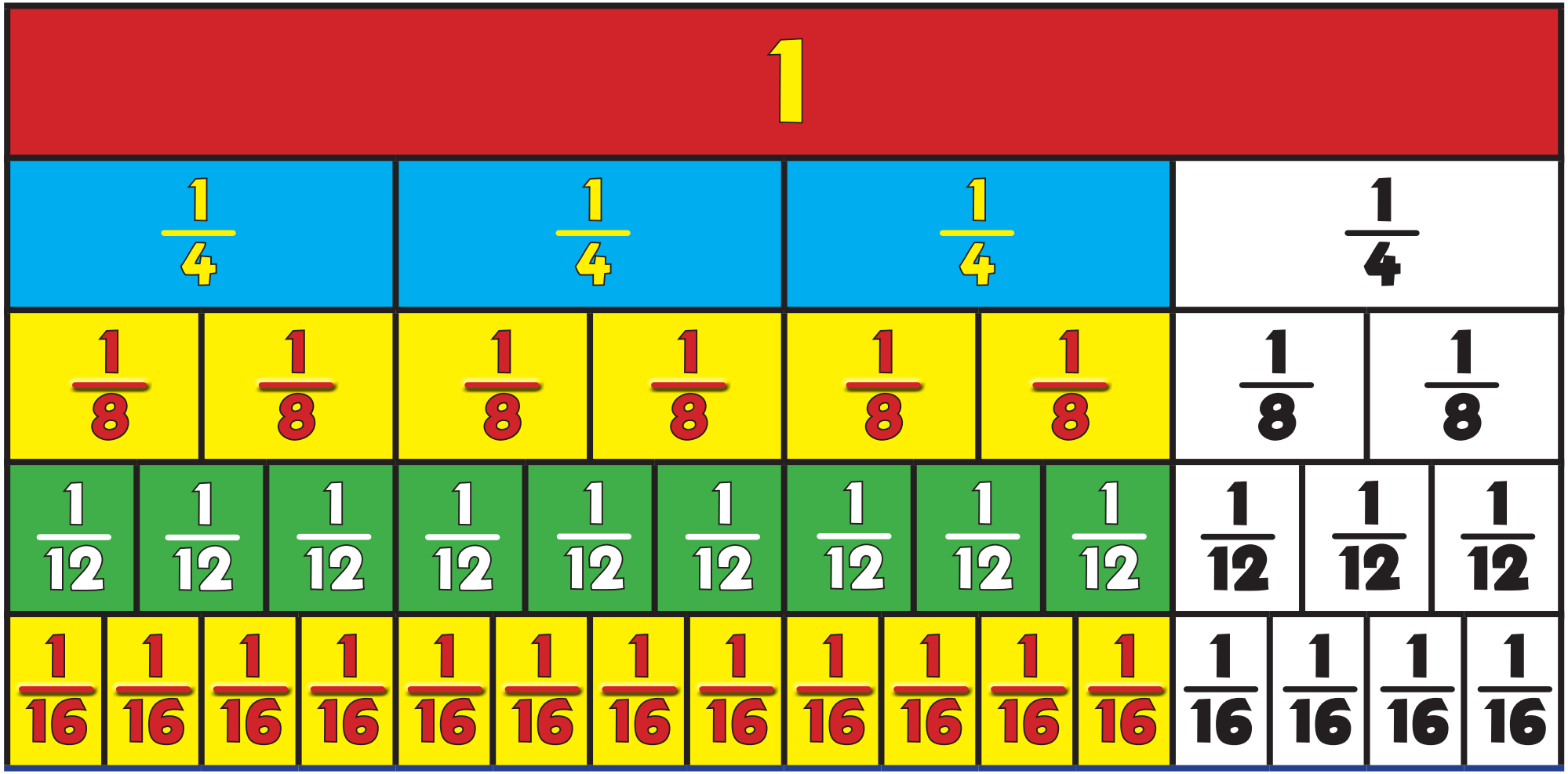
FF: Equivalent Fractions

3b



FF: Equivalent Fractions

3c

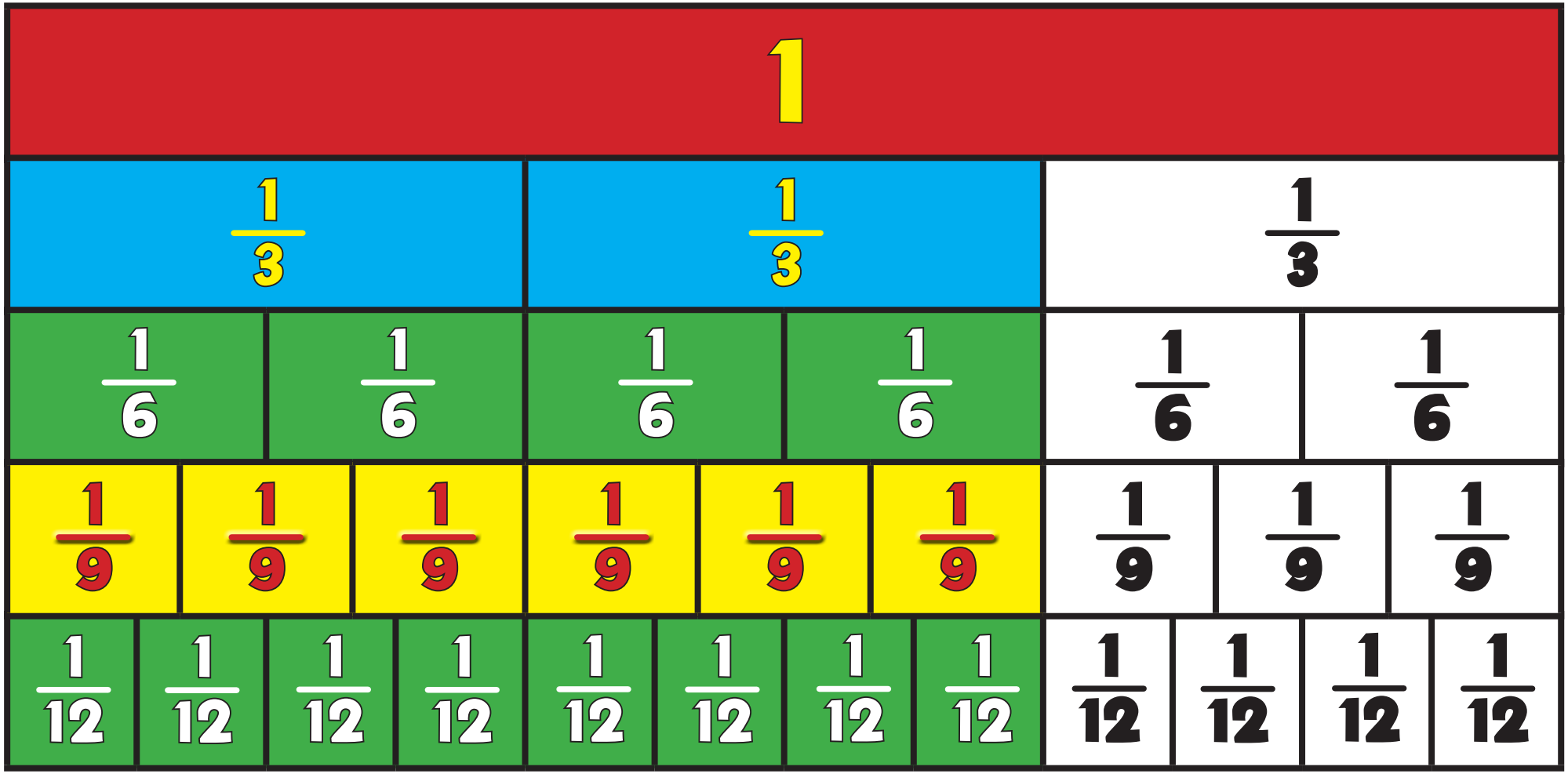


Newchurch C.P. School
Preparing To Fly

Newchurch Community Primary

FF: Equivalent Fractions

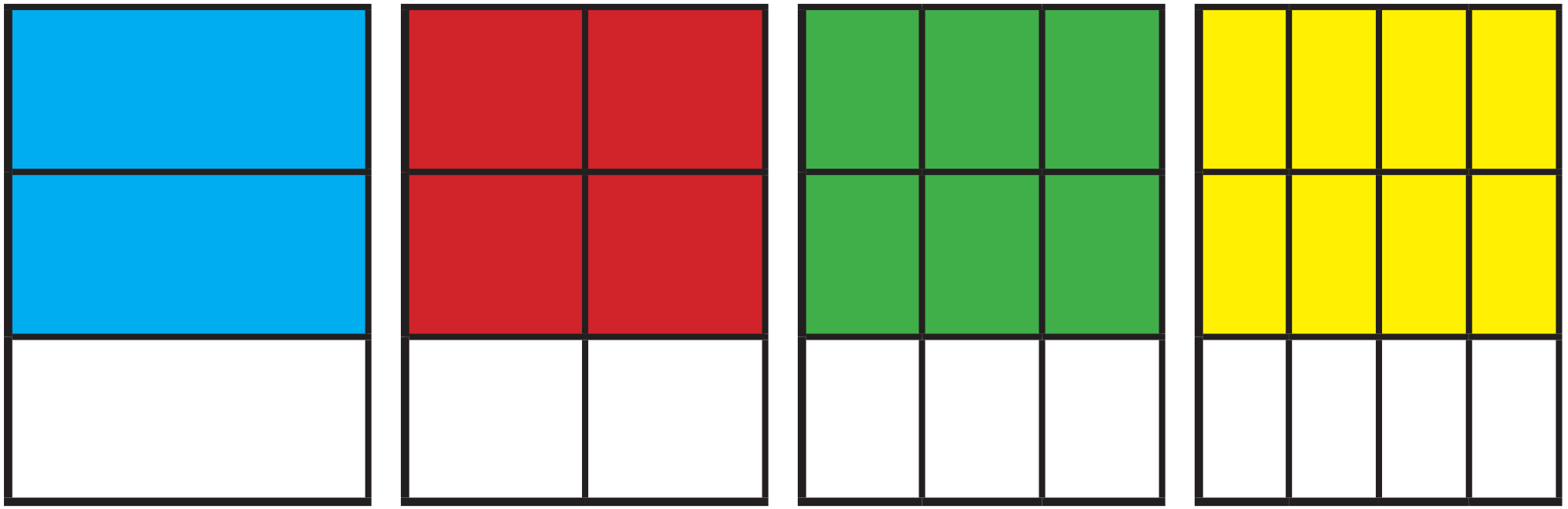
3d



Newchurch Community Primary

FF: Equivalent Fractions

4a

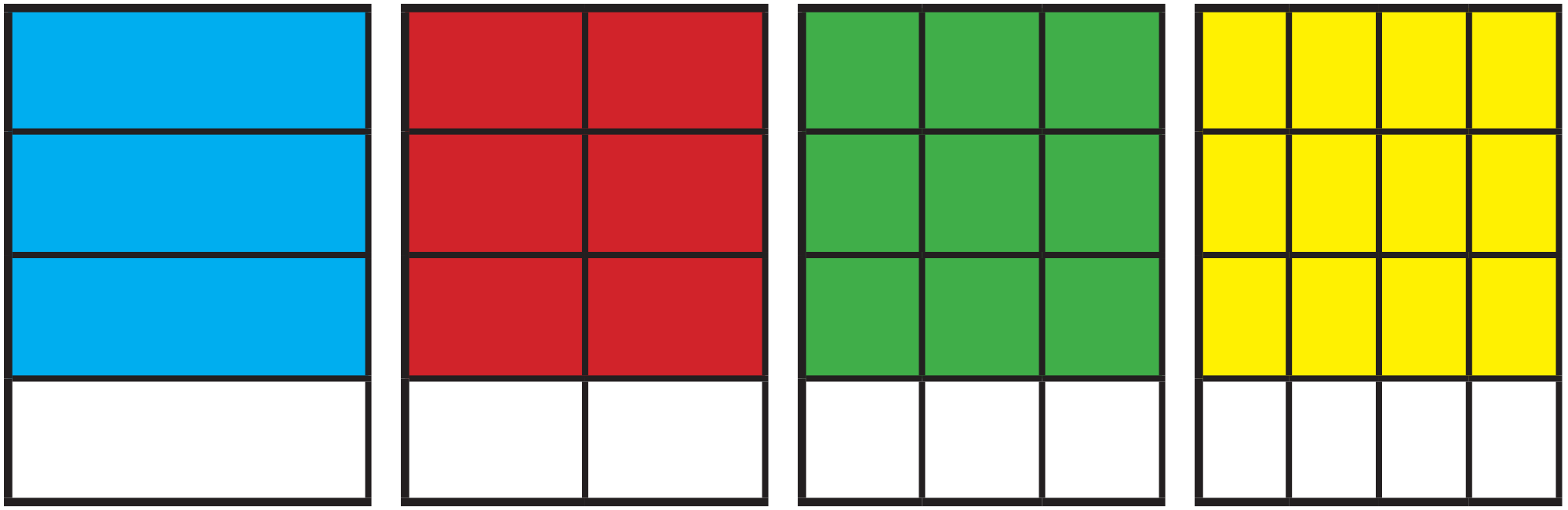


$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$$

Newchurch Community Primary

FF: Equivalent Fractions

4b



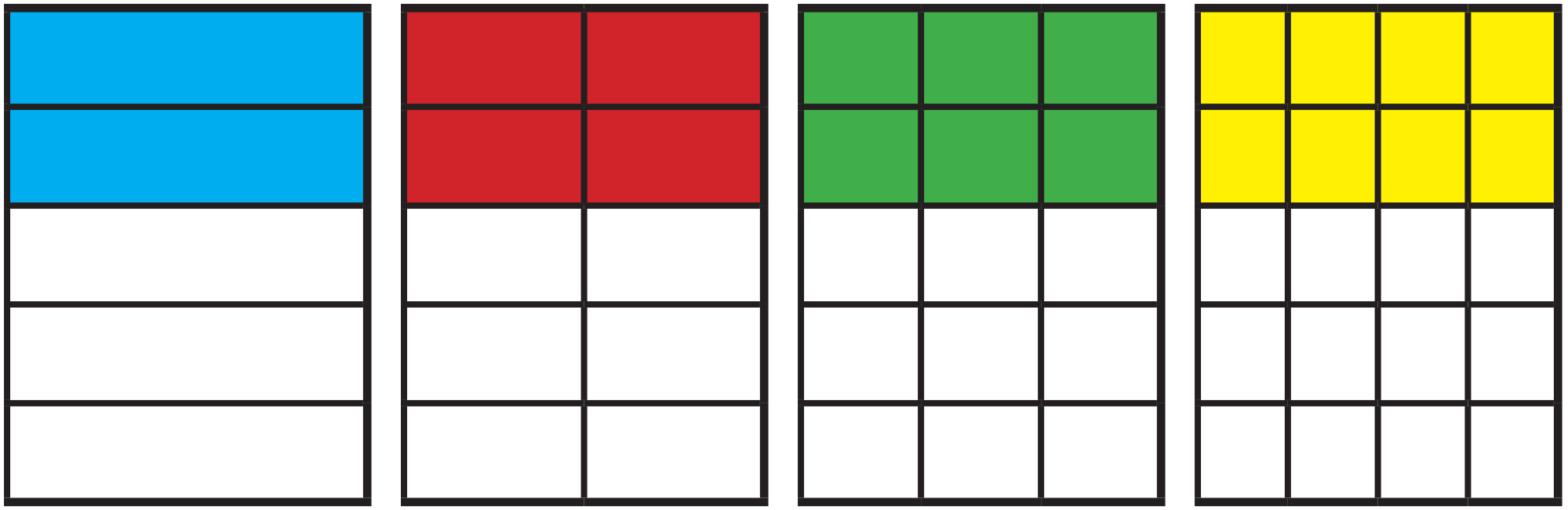
$$\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16}$$

Newchurch C.P. School
Preparing To Fly

Newchurch Community Primary

FF: Equivalent Fractions

4c

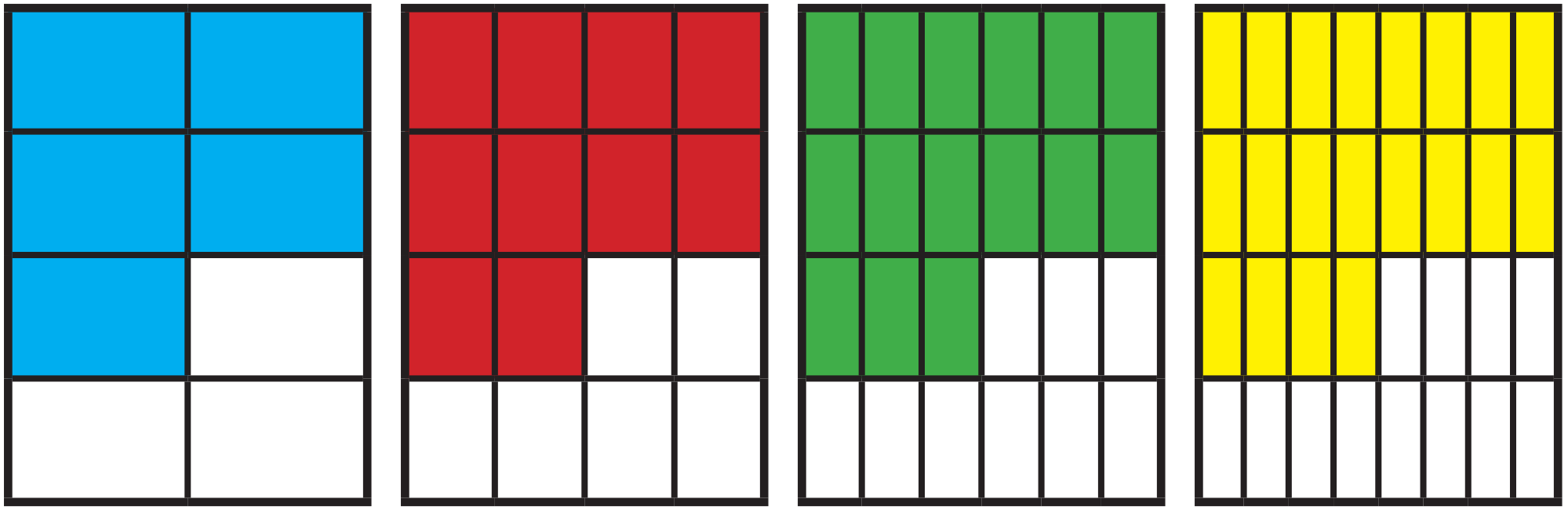


$$\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20}$$

Newchurch Community Primary

FF: Equivalent Fractions

4d

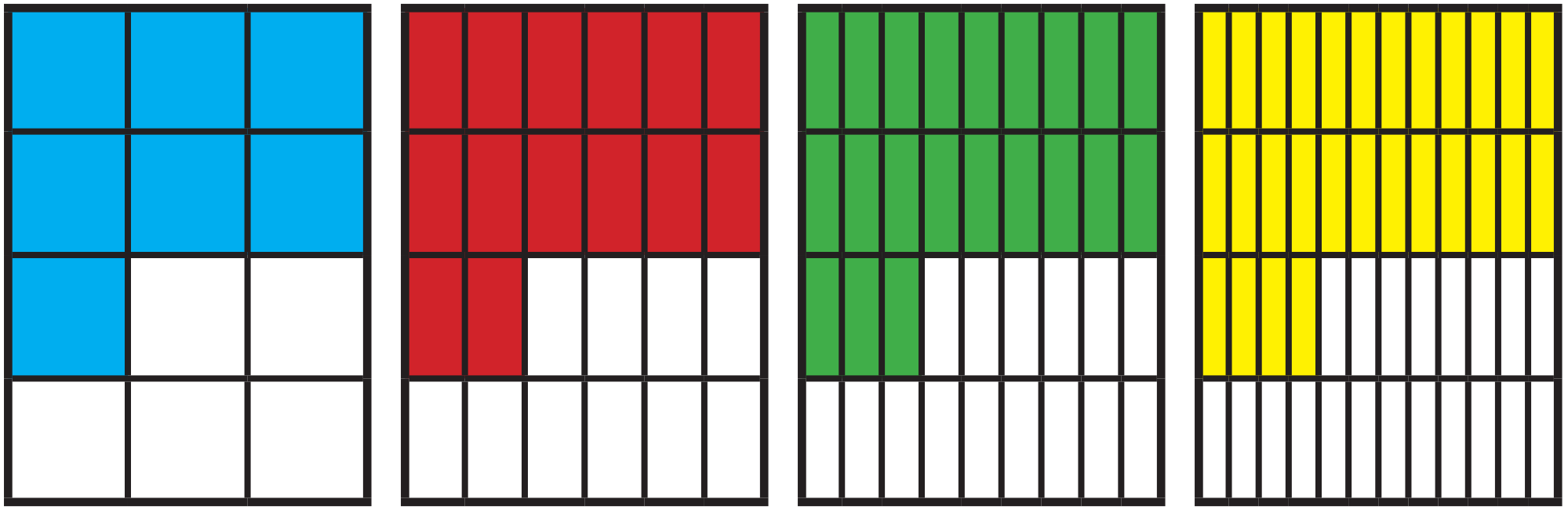


$$\frac{5}{8} = \frac{10}{16} = \frac{15}{24} = \frac{20}{32}$$

Newchurch Community Primary

FF: Equivalent Fractions

4e



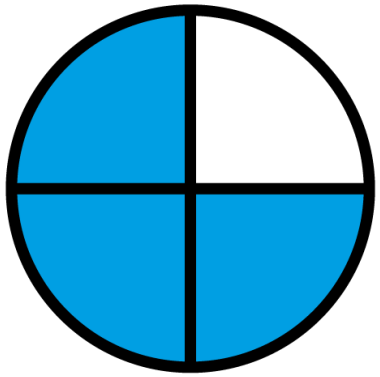
$$\frac{7}{12} = \frac{14}{24} = \frac{21}{36} = \frac{28}{48}$$

Newchurch C.P. School
Preparing To Fly

Newchurch Community Primary

FF: Equivalent Fractions

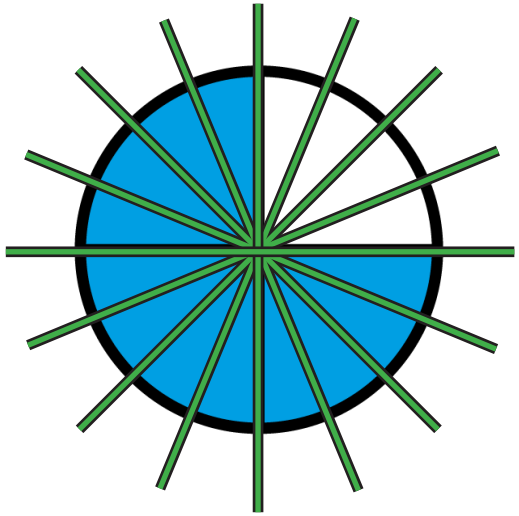
5



$$\frac{3}{4} = \frac{12}{16}$$

×4

×4



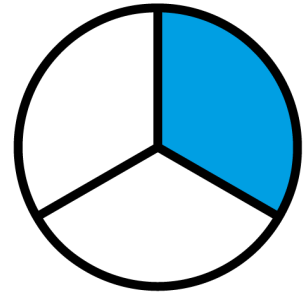
FF: Equivalent Fractions

6

$$\frac{75}{225} = \frac{1}{3}$$

÷75

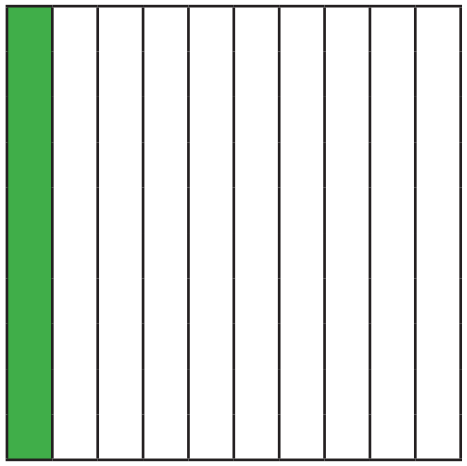
÷75



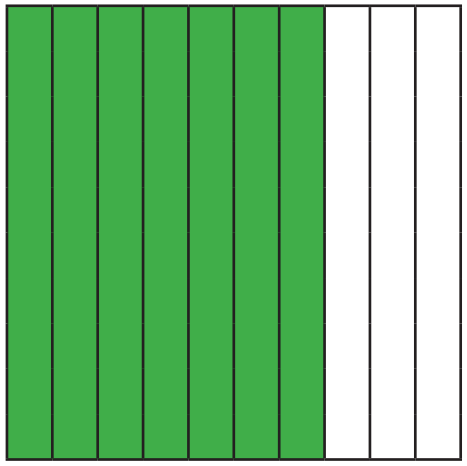
FG: Decimals/Fractions/Percentages

3

$\frac{1}{10} = 0.1 =$



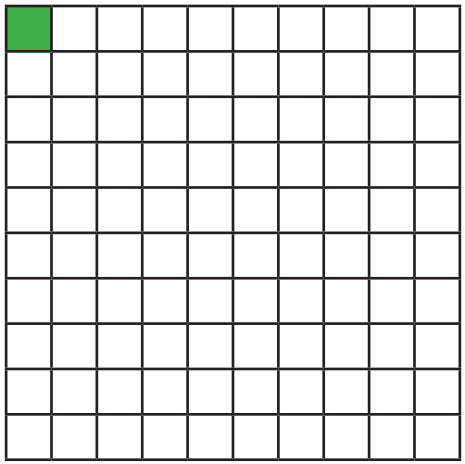
$\frac{7}{10} = 0.7 =$



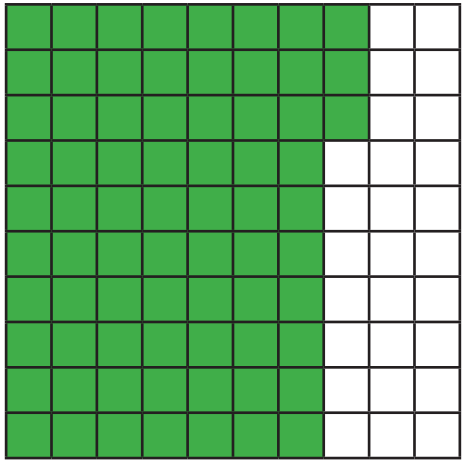
FH: Decimals/Fractions/Percentages

4

$$\frac{1}{100} = 0.01 =$$



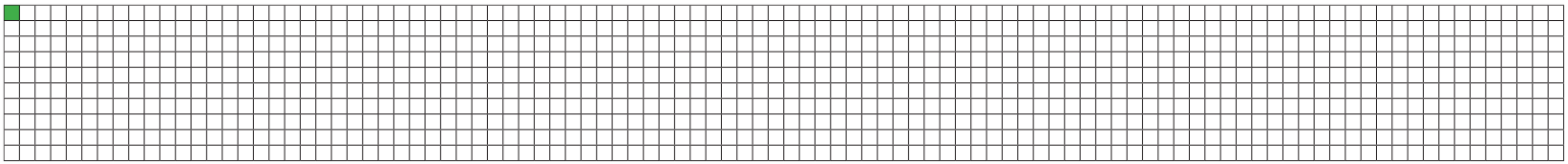
$$\frac{73}{100} = 0.73 =$$



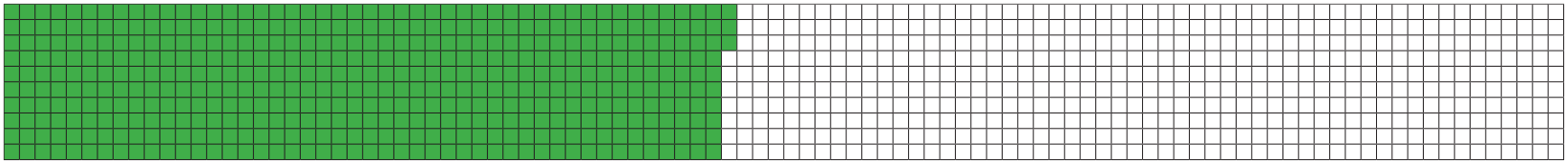
FG: Decimals/Fractions/Percentages

5a

$$\frac{1}{1000} = 0.001$$



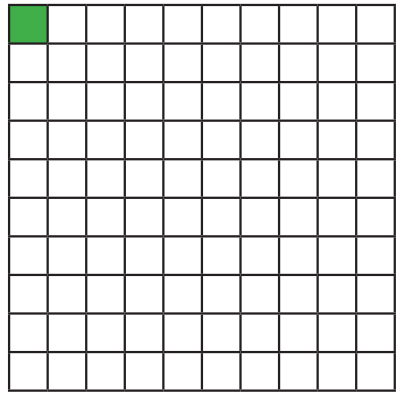
$$\frac{463}{1000} = 0.463$$



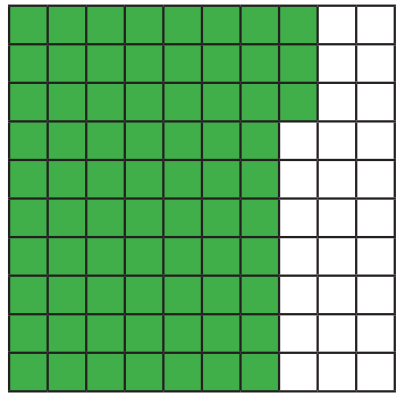
FG: Decimals/Fractions/Percentages

5b

$\frac{1}{100} = 0.01 = 1\% =$

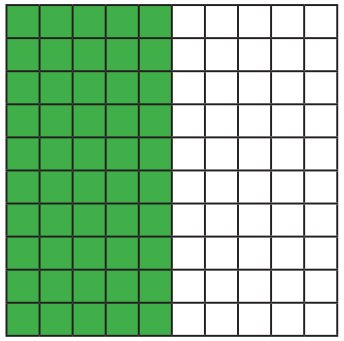


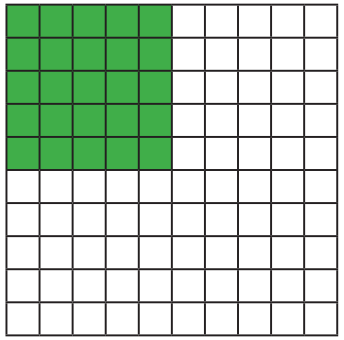
$\frac{73}{100} = 0.73 = 73\% =$

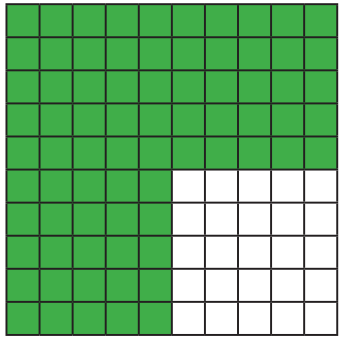


FH: Common FDP Equivalences

4

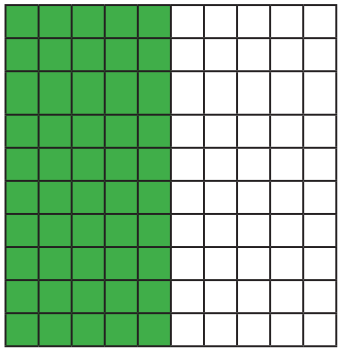
$\frac{1}{2} = 0.5 =$ 

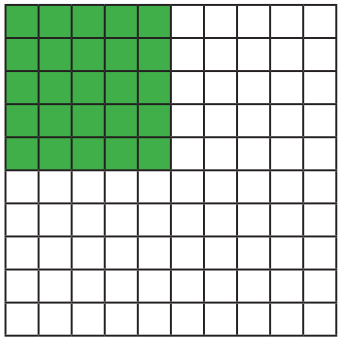
$\frac{1}{4} = 0.25 =$ 

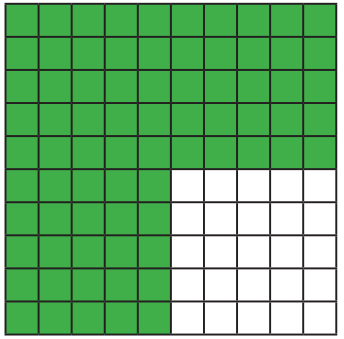
$\frac{3}{4} = 0.75 =$ 

FH: Common FDP Equivalences

5a

$\frac{1}{2} = 0.5 = 50\% =$ 

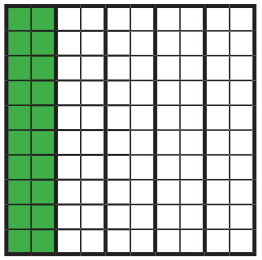
$\frac{1}{4} = 0.25 = 25\% =$ 

$\frac{3}{4} = 0.75 = 75\% =$ 

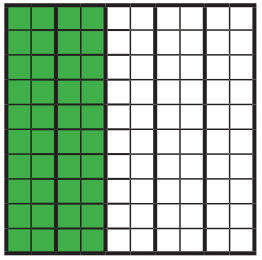
FH: Common FDP Equivalences

5b

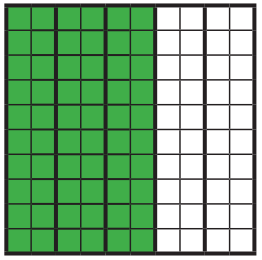
$\frac{1}{5}$ = 0.2 = 20% =



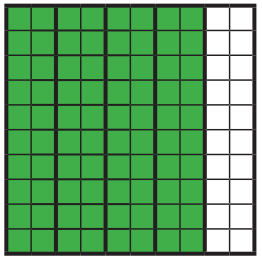
$\frac{2}{5}$ = 0.4 = 40% =



$\frac{3}{5}$ = 0.6 = 60% =



$\frac{4}{5}$ = 0.8 = 80% =



FH: Common FDP Equivalences

5c

1 1.0 100%	
$\frac{1}{2}$ 0.5 50%	$\frac{1}{2}$ 0.5 50%
$\frac{1}{4}$ 0.25 25%	$\frac{1}{4}$ 0.25 25%
$\frac{1}{4}$ 0.25 25%	$\frac{1}{4}$ 0.25 25%

FH: Common FDP Equivalences

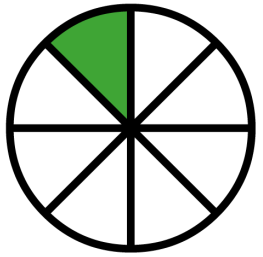
5d

1 1.0 100%									
$\frac{1}{5}$ 0.2 20%		$\frac{1}{5}$ 0.2 20%		$\frac{1}{5}$ 0.2 20%		$\frac{1}{5}$ 0.2 20%		$\frac{1}{5}$ 0.2 20%	
$\frac{1}{10}$ 0.1 10%	$\frac{1}{10}$ 0.1 10%	$\frac{1}{10}$ 0.1 10%	$\frac{1}{10}$ 0.1 10%	$\frac{1}{10}$ 0.1 10%	$\frac{1}{10}$ 0.1 10%	$\frac{1}{10}$ 0.1 10%	$\frac{1}{10}$ 0.1 10%	$\frac{1}{10}$ 0.1 10%	$\frac{1}{10}$ 0.1 10%

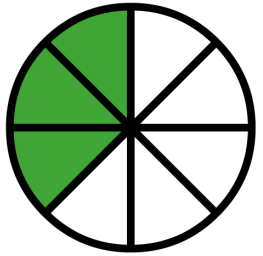
FH: Common FDP Equivalences

6a

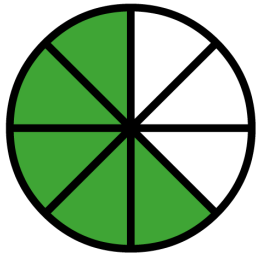
$\frac{1}{8}$ = 0.125 = 12.5% =



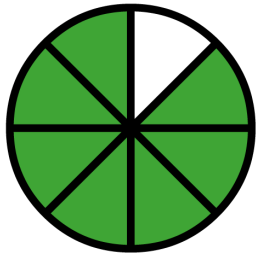
$\frac{3}{8}$ = 0.375 = 37.5% =



$\frac{5}{8}$ = 0.625 = 62.5% =

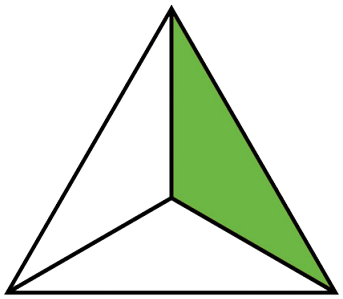


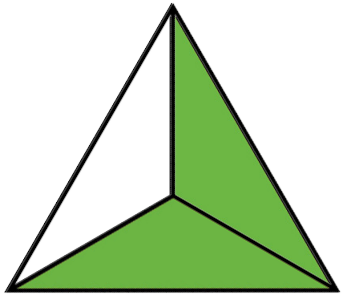
$\frac{7}{8}$ = 0.875 = 87.5% =



FH: Common FDP Equivalences

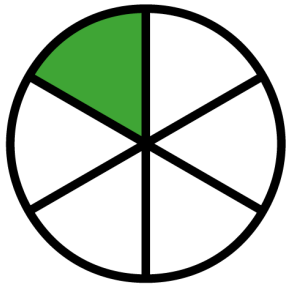
6b

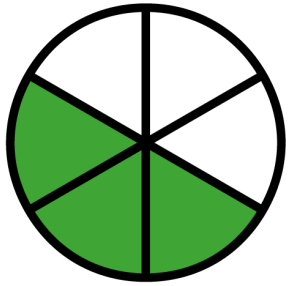
$\frac{1}{3} = 0.3\dot{3} = 33.\dot{3}\% =$ 

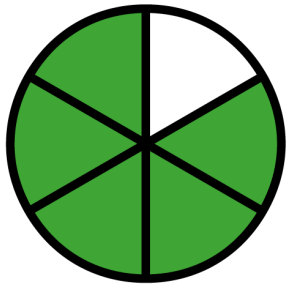
$\frac{2}{3} = 0.6\dot{6} = 66.\dot{6}\% =$ 

FH: Common FDP Equivalences

6c

$\frac{1}{6} = 0.1\dot{6} = 16.\dot{6}\% =$ 

$\frac{3}{6} = 0.5 = 50\% =$ 

$\frac{5}{6} = 0.8\dot{3} = 83.\dot{3}\% =$ 

Newchurch Community Primary

FH: Common FDP Equivalences

6d

$\frac{1}{7} = 0.\overline{142857} = 14.\overline{285714}\% =$ 

$\frac{2}{7} = 0.\overline{285714} = 28.\overline{571428}\% =$ 

$\frac{3}{7} = 0.\overline{428571} = 42.\overline{857142}\% =$ 

$\frac{4}{7} = 0.\overline{571428} = 57.\overline{142857}\% =$ 

$\frac{5}{7} = 0.\overline{714285} = 71.\overline{428571}\% =$ 

$\frac{6}{7} = 0.\overline{857142} = 85.\overline{714285}\% =$ 

FH: Common FDP Equivalences

6e

1 1.0 100%					
$\frac{1}{3}$ $0.3\dot{3}$ $33.\dot{3}\%$		$\frac{1}{3}$ $0.3\dot{3}$ $33.\dot{3}\%$		$\frac{1}{3}$ $0.3\dot{3}$ $33.\dot{3}\%$	
$\frac{1}{6}$ $0.1\dot{6}$ $16.\dot{6}\%$	$\frac{1}{6}$ $0.1\dot{6}$ $16.\dot{6}\%$	$\frac{1}{6}$ $0.1\dot{6}$ $16.\dot{6}\%$	$\frac{1}{6}$ $0.1\dot{6}$ $16.\dot{6}\%$	$\frac{1}{6}$ $0.1\dot{6}$ $16.\dot{6}\%$	$\frac{1}{6}$ $0.1\dot{6}$ $16.\dot{6}\%$

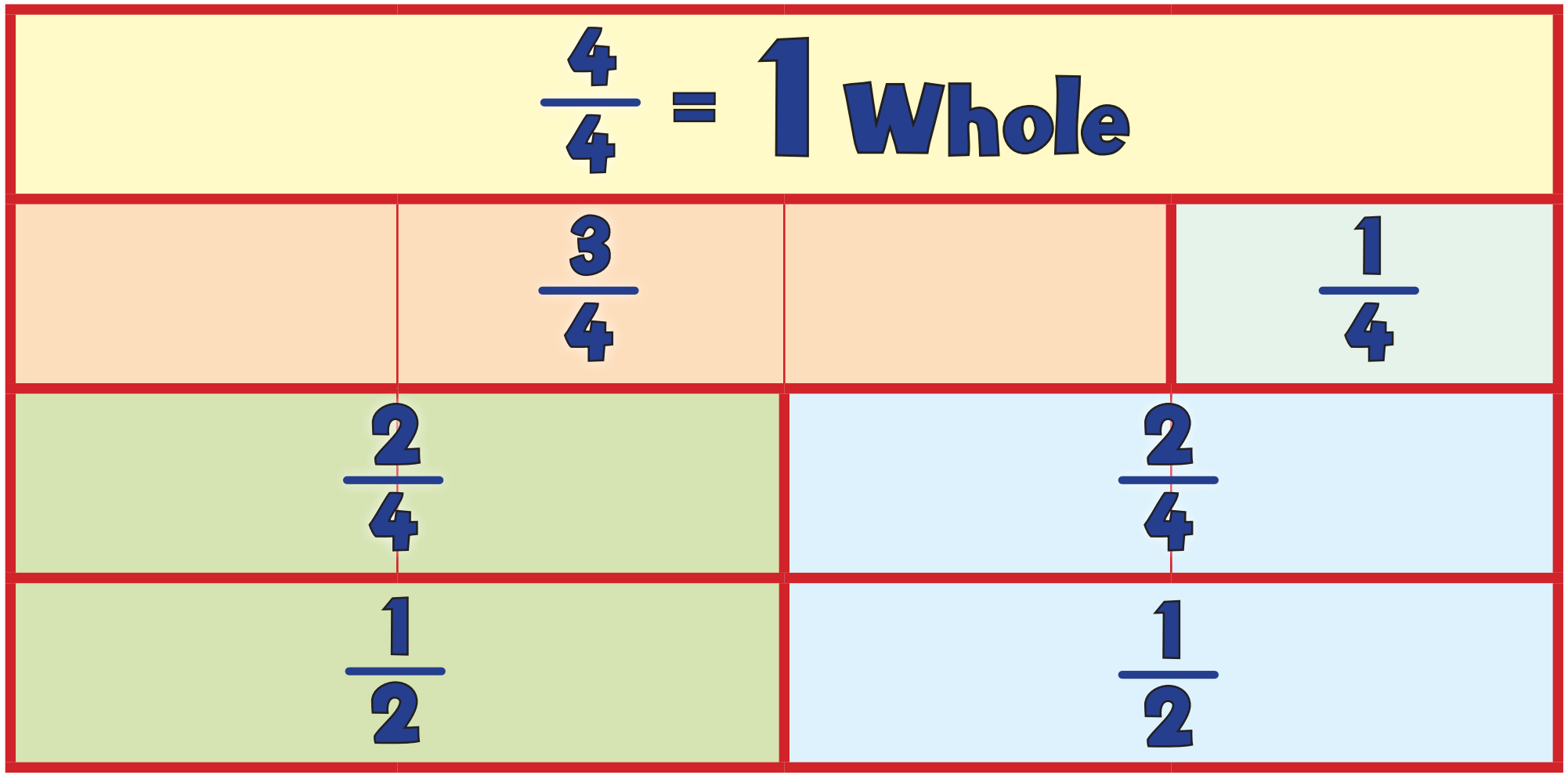
FH: Common FDP Equivalences

6f

1 1.0 100%						
$\frac{1}{7}$ 0.143 14.3%	$\frac{1}{7}$ 0.143 14.3%	$\frac{1}{7}$ 0.143 14.3%	$\frac{1}{7}$ 0.143 14.3%	$\frac{1}{7}$ 0.143 14.3%	$\frac{1}{7}$ 0.143 14.3%	$\frac{1}{7}$ 0.143 14.3%
$\frac{1}{9}$ $0.1\dot{1}$ 11.1%	$\frac{1}{9}$ $0.1\dot{1}$ 11.1%	$\frac{1}{9}$ $0.1\dot{1}$ 11.1%	$\frac{1}{9}$ $0.1\dot{1}$ 11.1%	$\frac{1}{9}$ $0.1\dot{1}$ 11.1%	$\frac{1}{9}$ $0.1\dot{1}$ 11.1%	$\frac{1}{9}$ $0.1\dot{1}$ 11.1%	$\frac{1}{9}$ $0.1\dot{1}$ 11.1%	$\frac{1}{9}$ $0.1\dot{1}$ 11.1%

F1: Fractions to 1

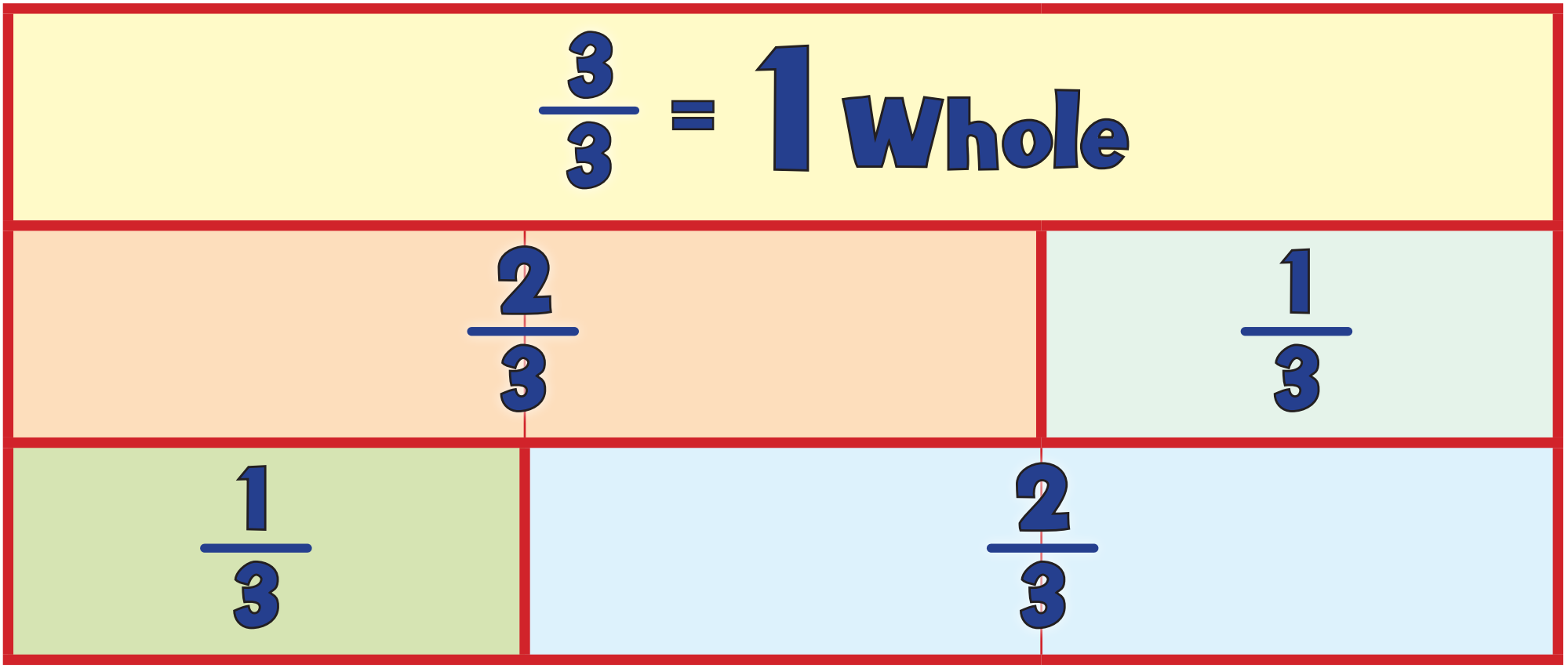
2a Halves and Quarters



F1: Fractions to 1

2b

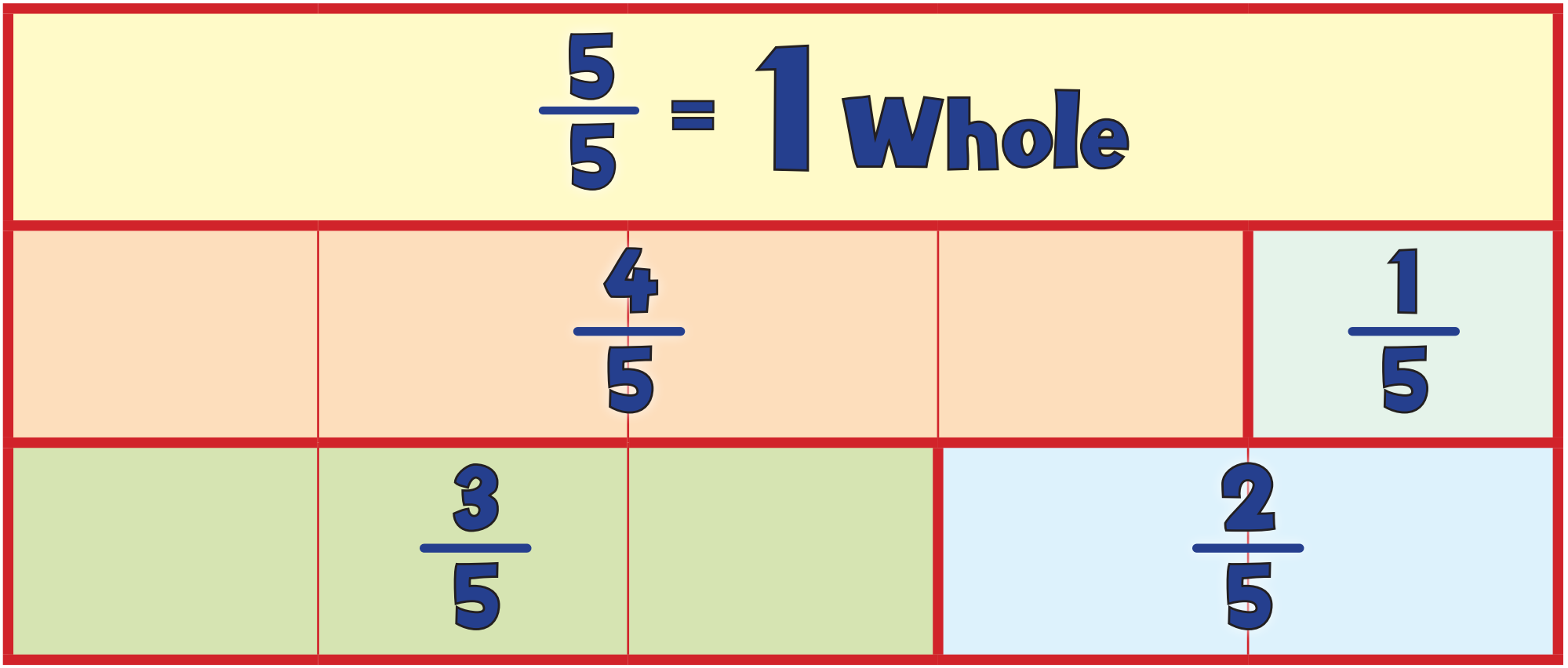
Thirds



F1: Fractions to 1

3a

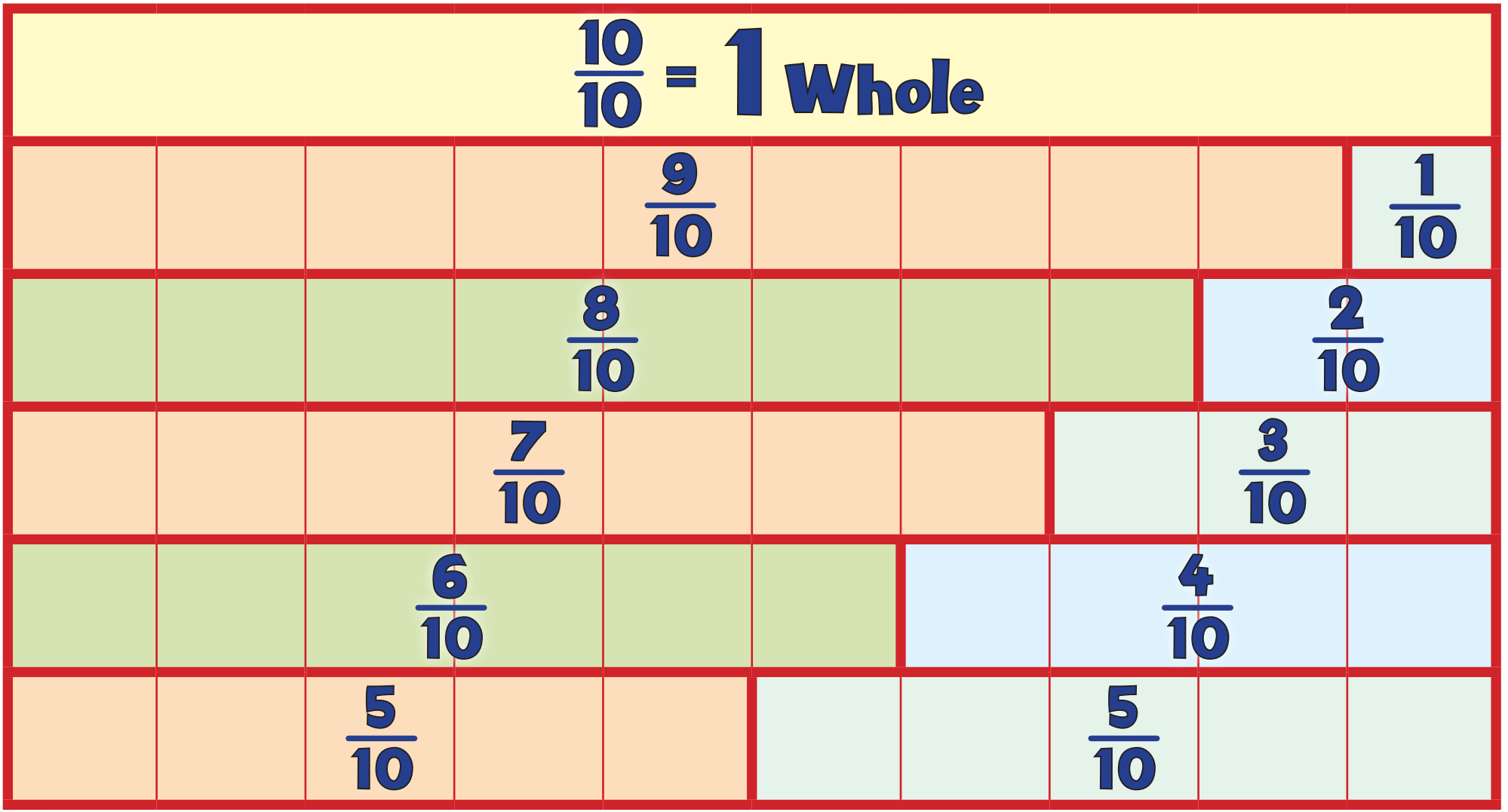
Fifths



F1: Fractions to 1

3b

Tenths

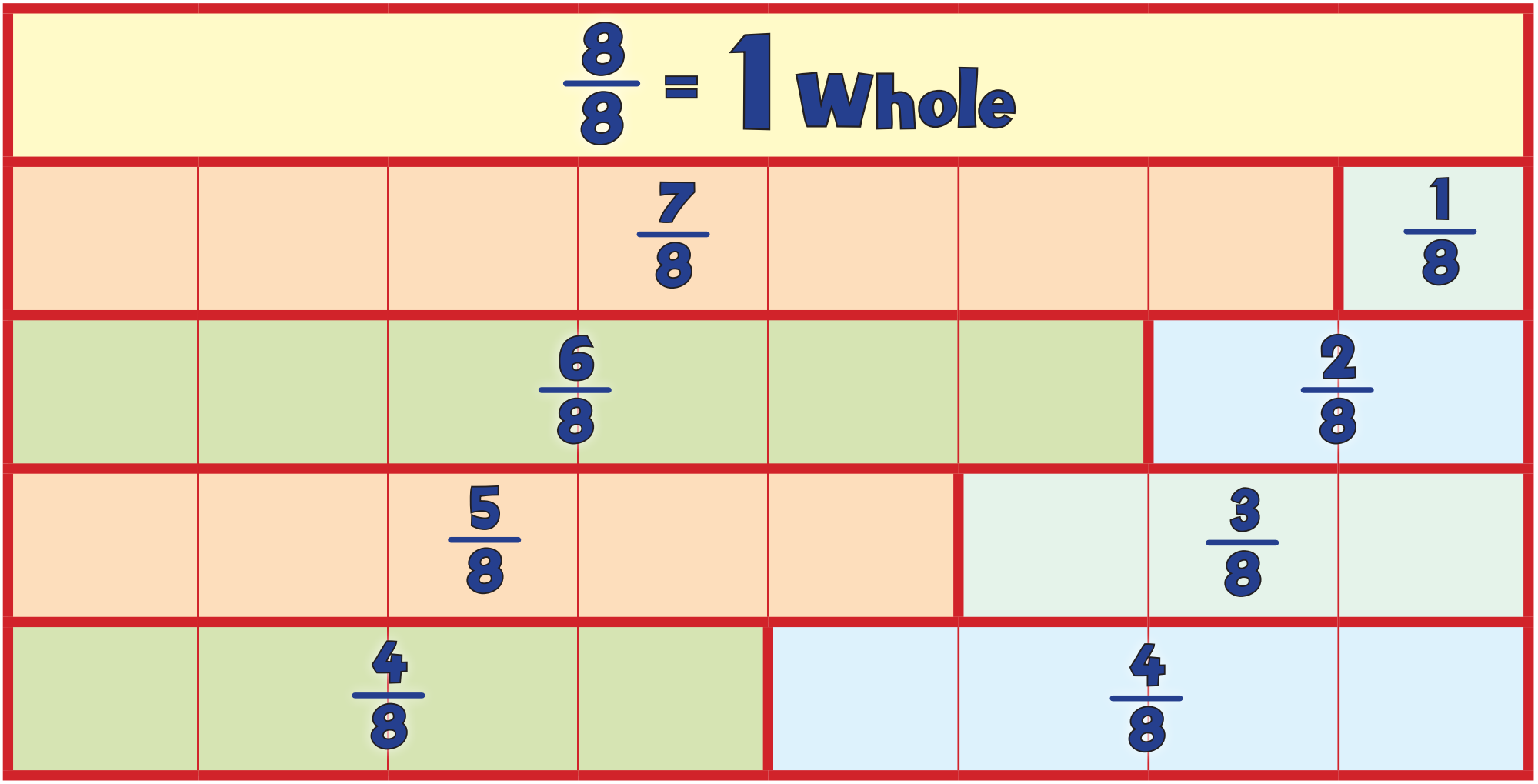


Newchurch Community Primary

F1: Fractions to 1

3c

Eighths

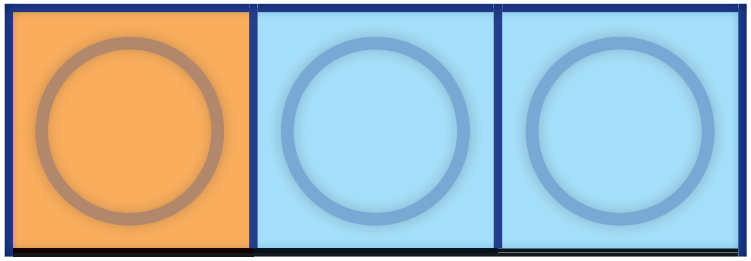


F1: Fractions to 1

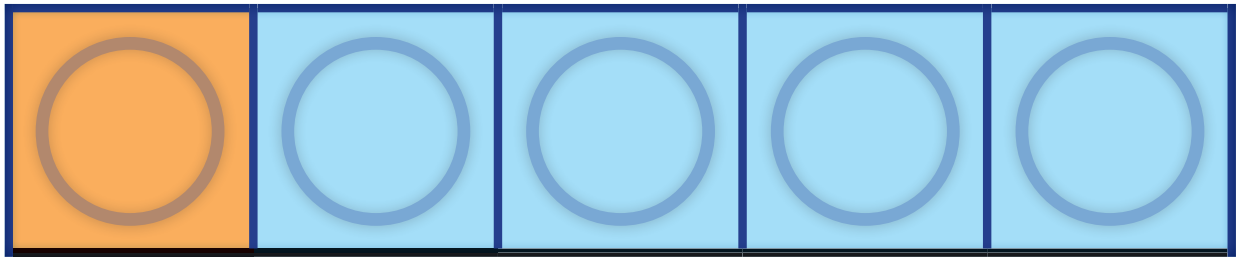
3d

Make a Whole!

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



$$\frac{1}{5} + \frac{4}{5}$$

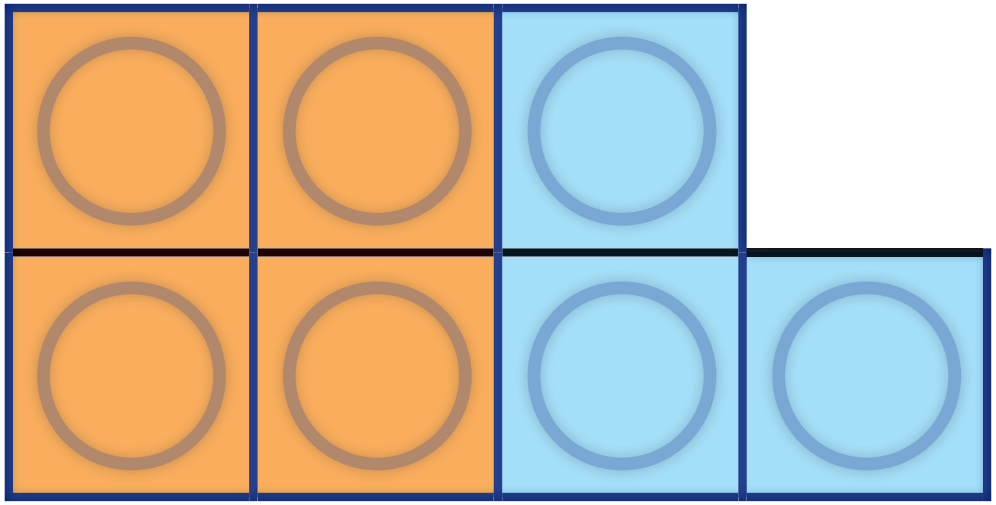


F1: Fractions to 1

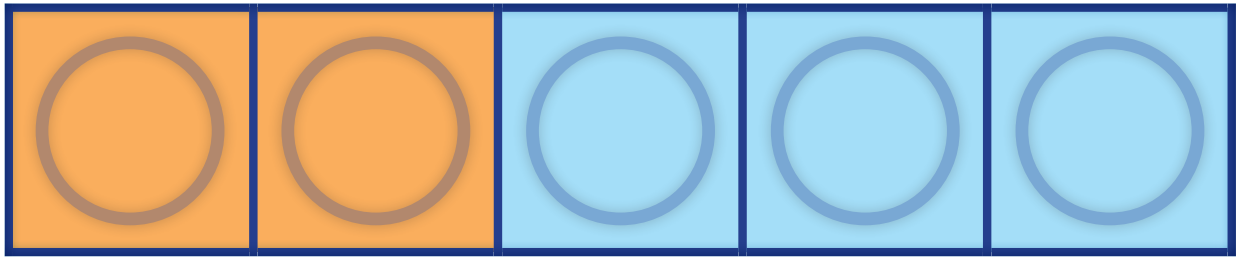
3e

Make a Whole!

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



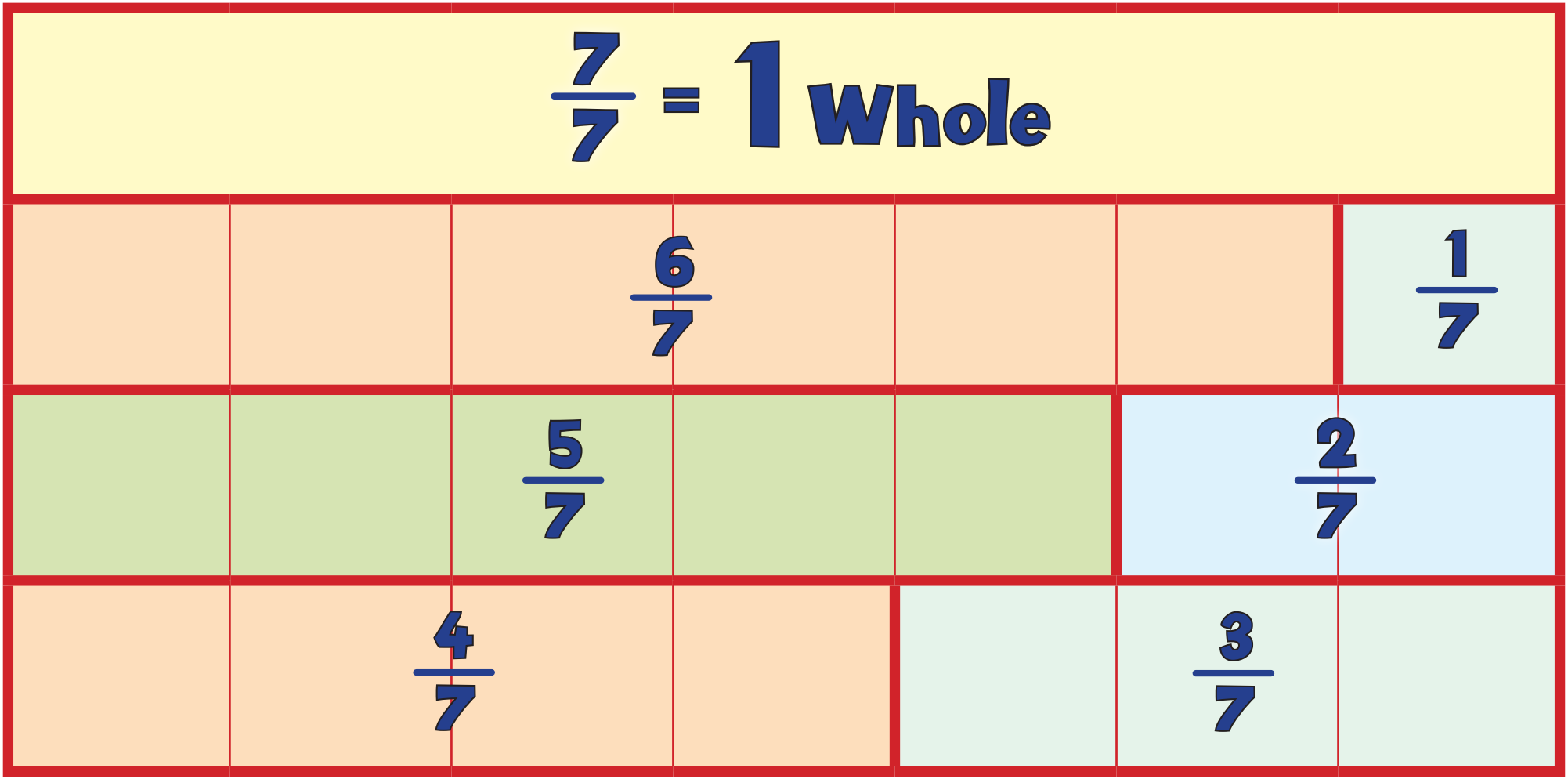
$$\frac{2}{5} + \frac{3}{5}$$



F1: Fractions to 1

4a

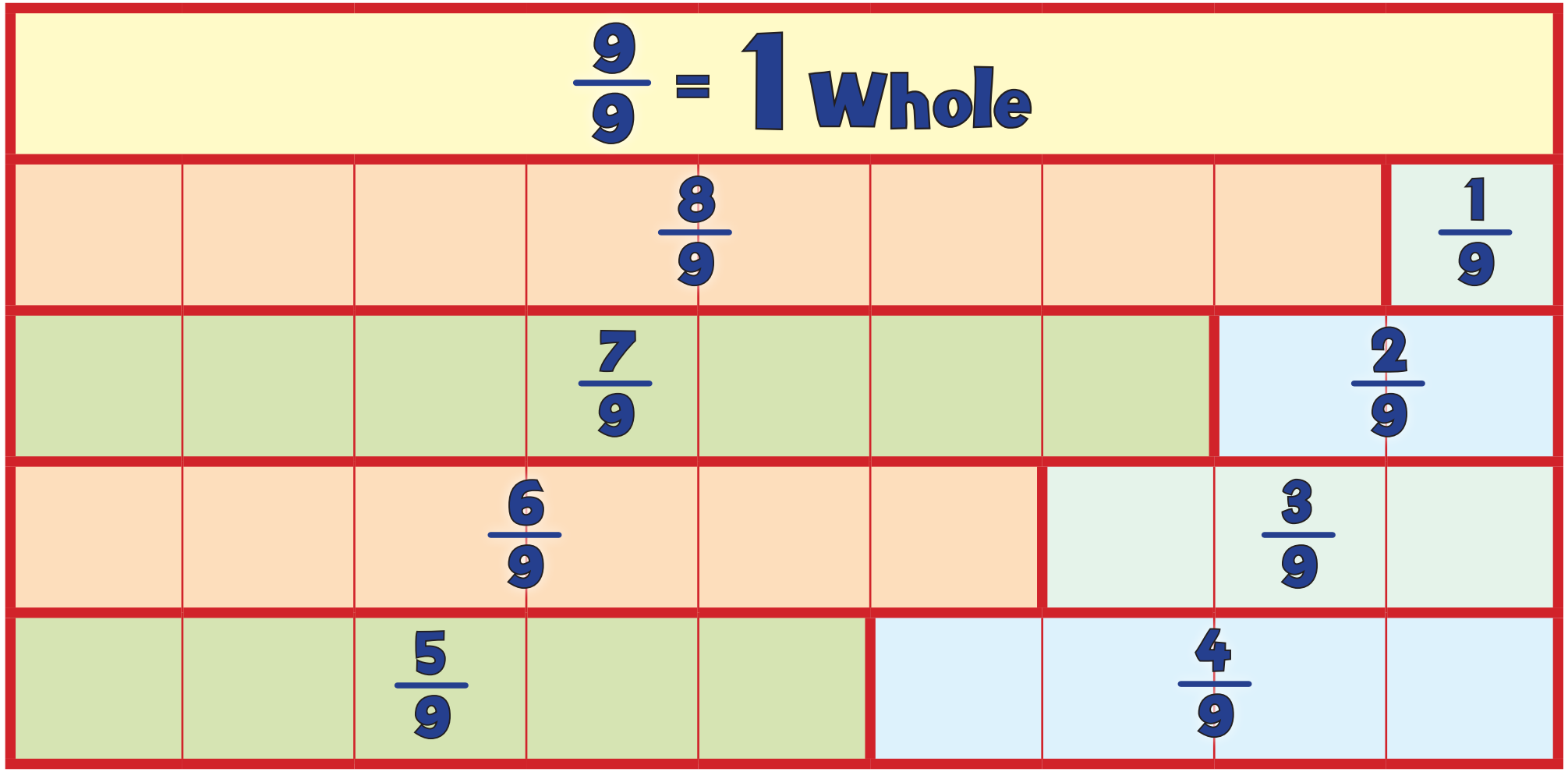
Sevenths



F1: Fractions to 1

4b

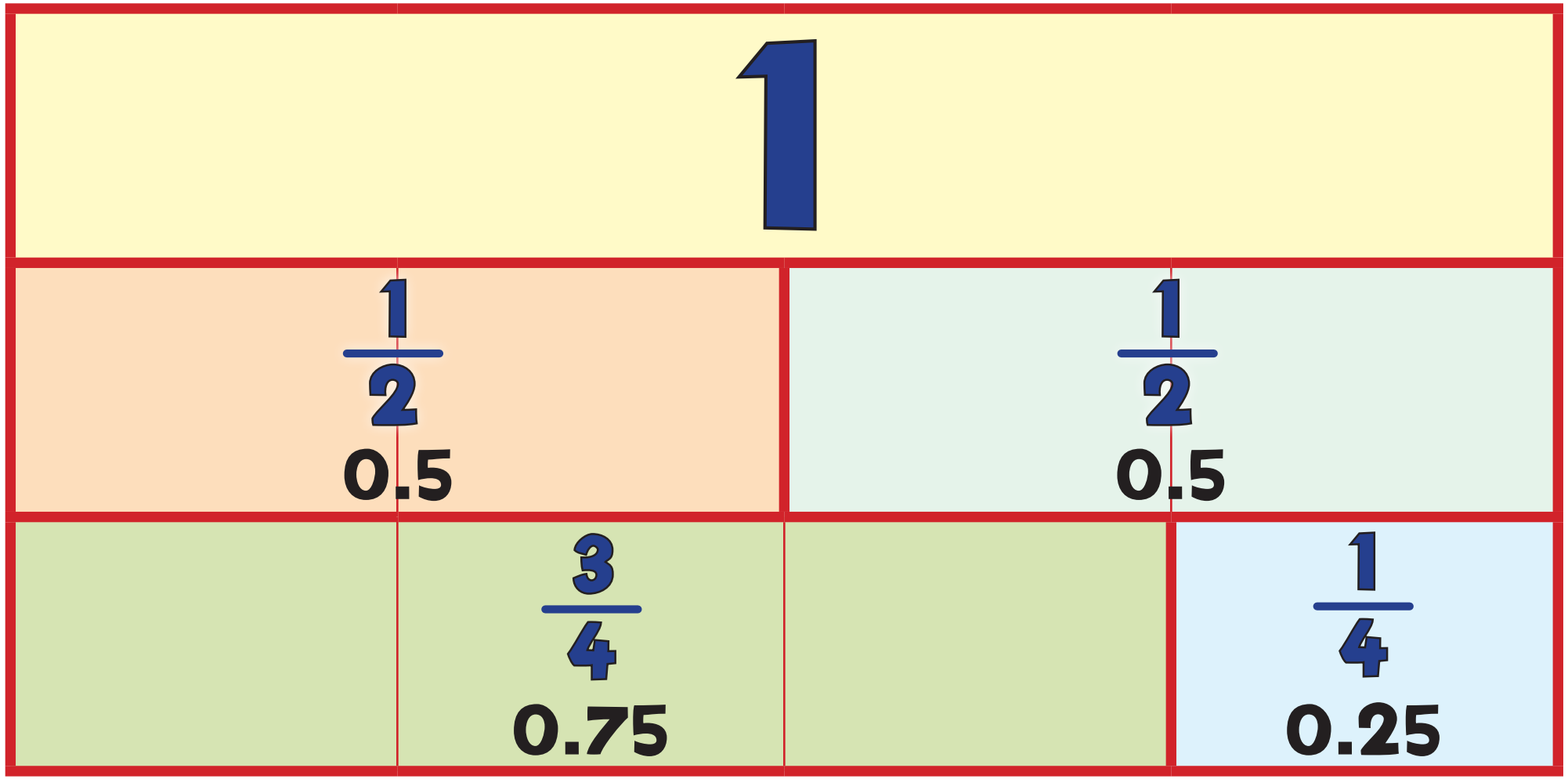
Ninths



Newchurch Community Primary

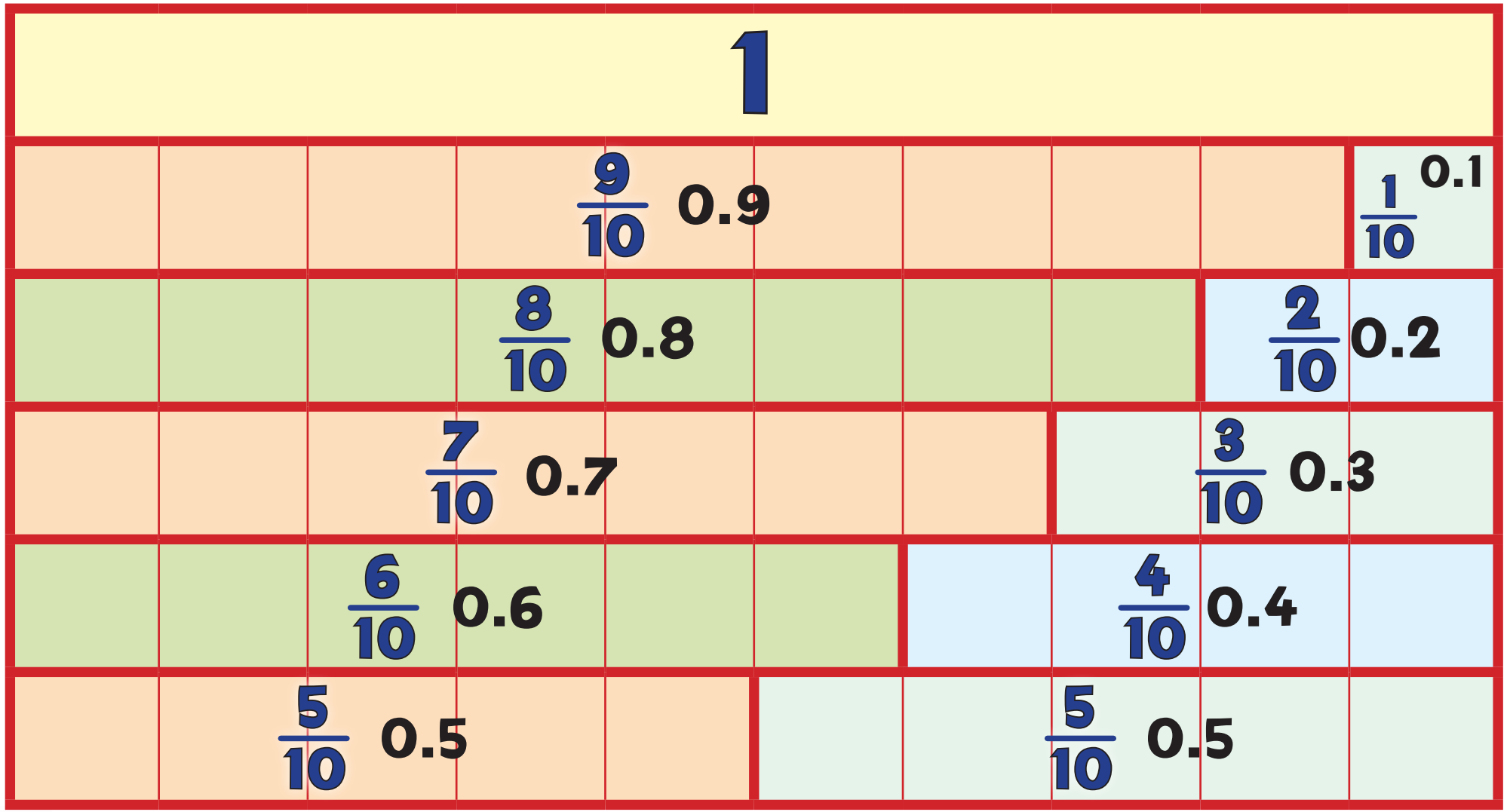
F1: Fractions to 1

4c Halves and Quarters



F1: Fractions to 1

4d Tenths

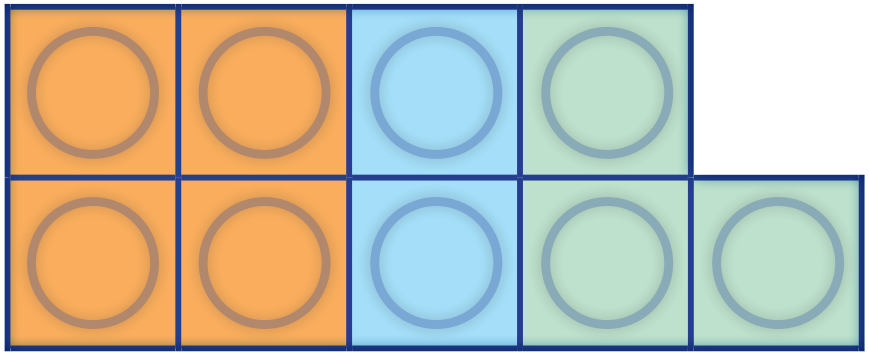


F1: Fractions to 1

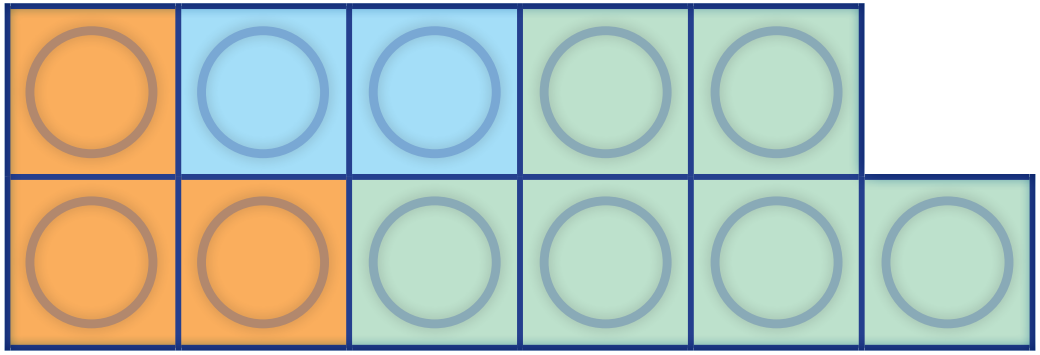
4e

Make a Whole!

$$\frac{4}{9} + \frac{2}{9} + \frac{3}{9}$$



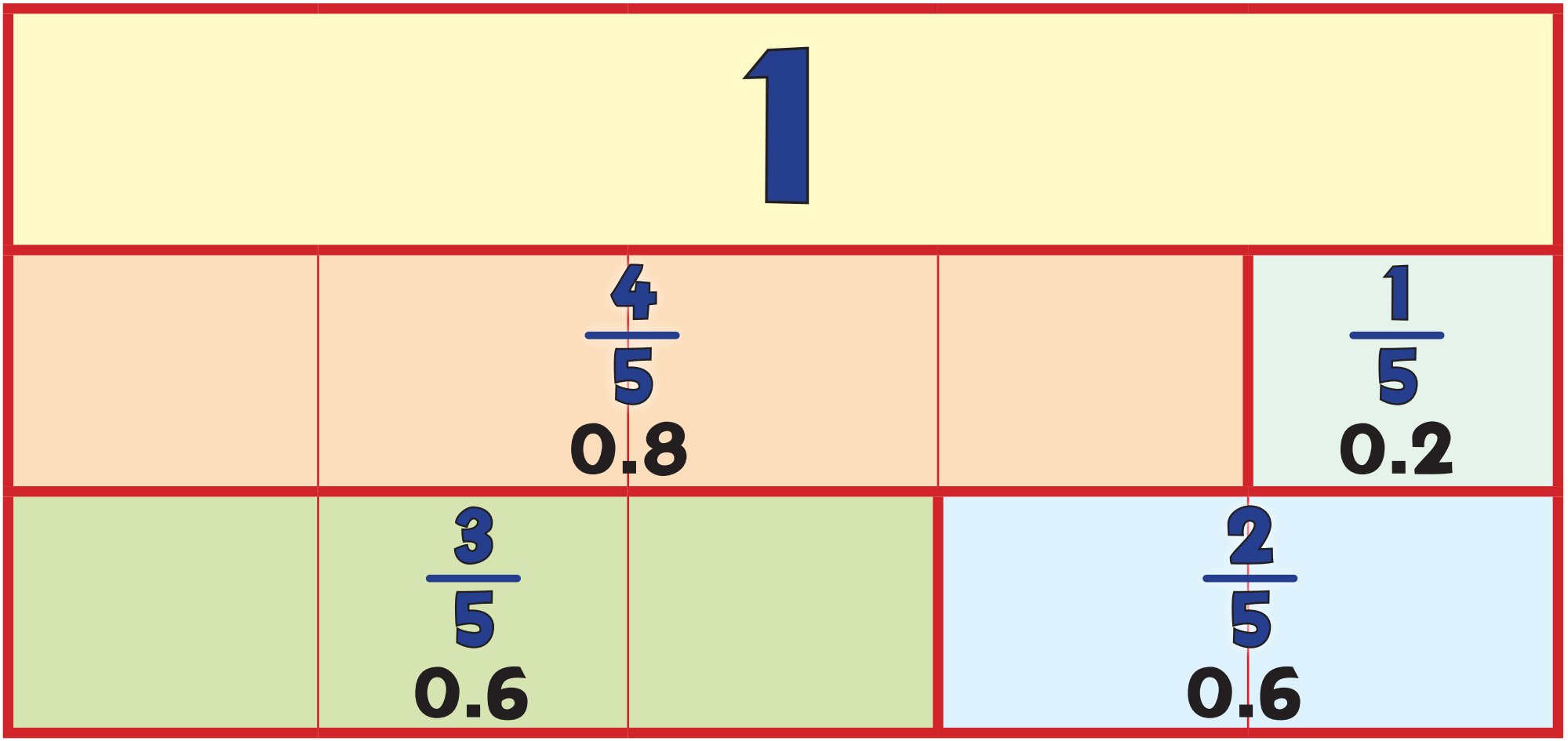
$$\frac{3}{11} + \frac{2}{11} + \frac{6}{11}$$



F1: Fractions to 1

5a

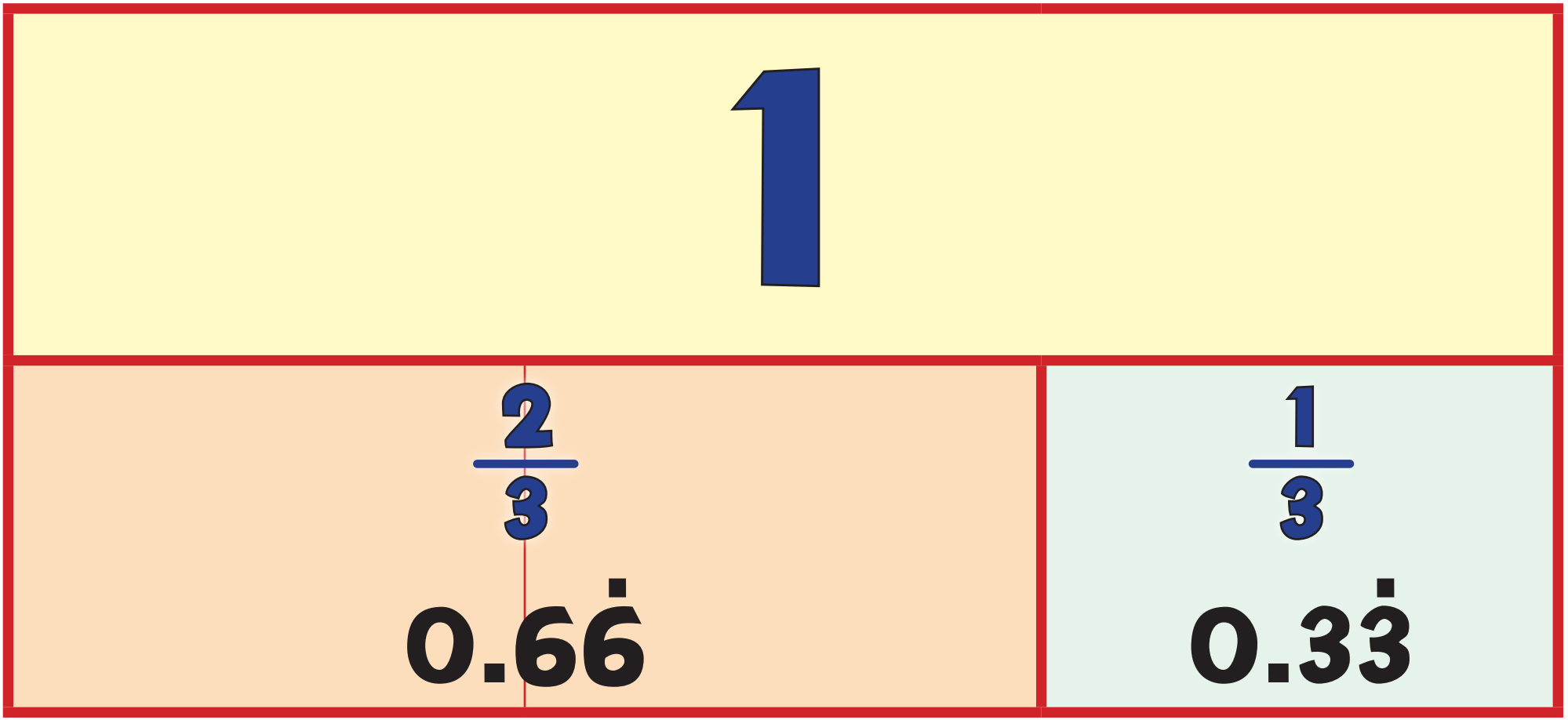
Fifths



F1: Fractions to 1

5b

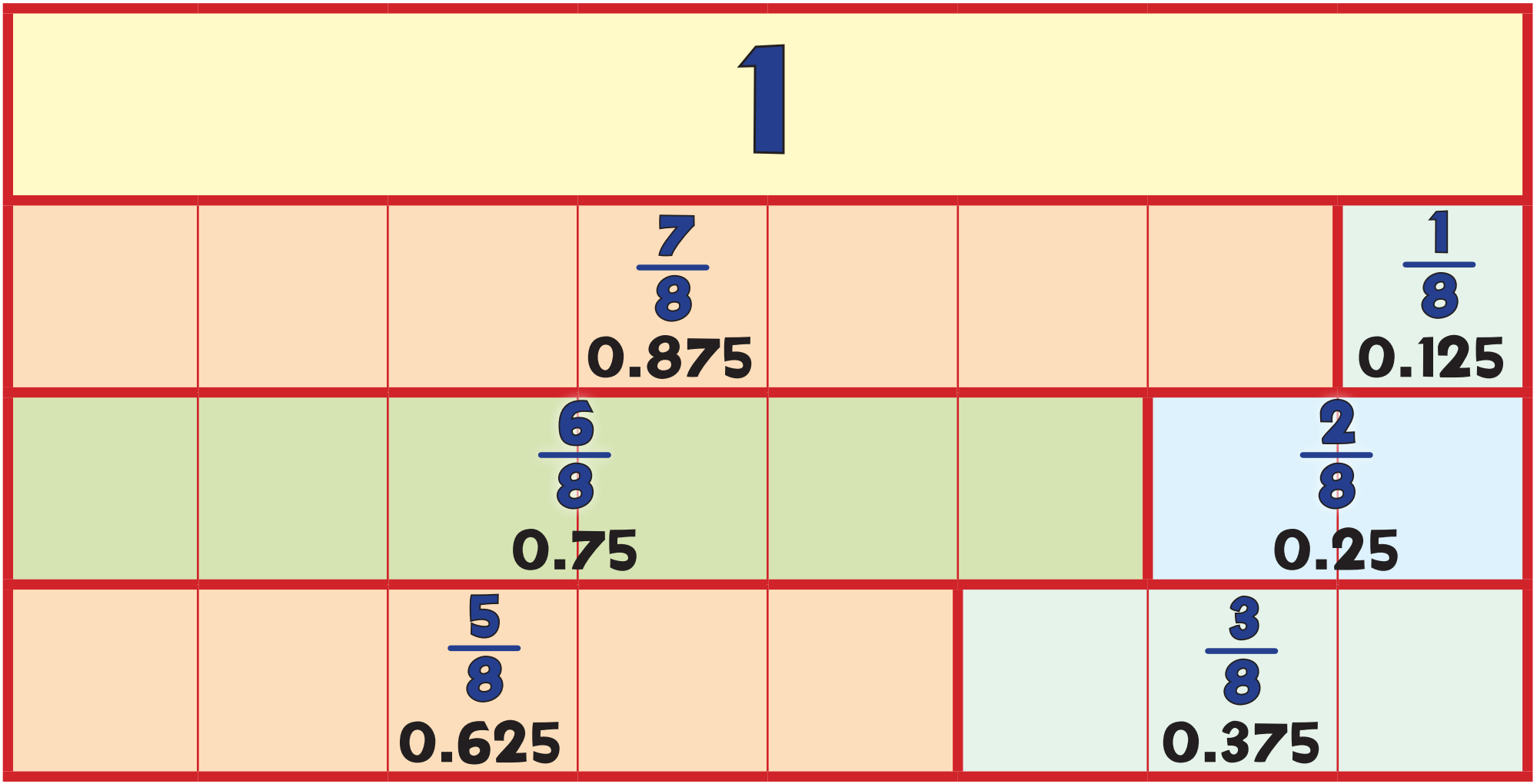
Thirds



F1: Fractions to 1

6

Eighths

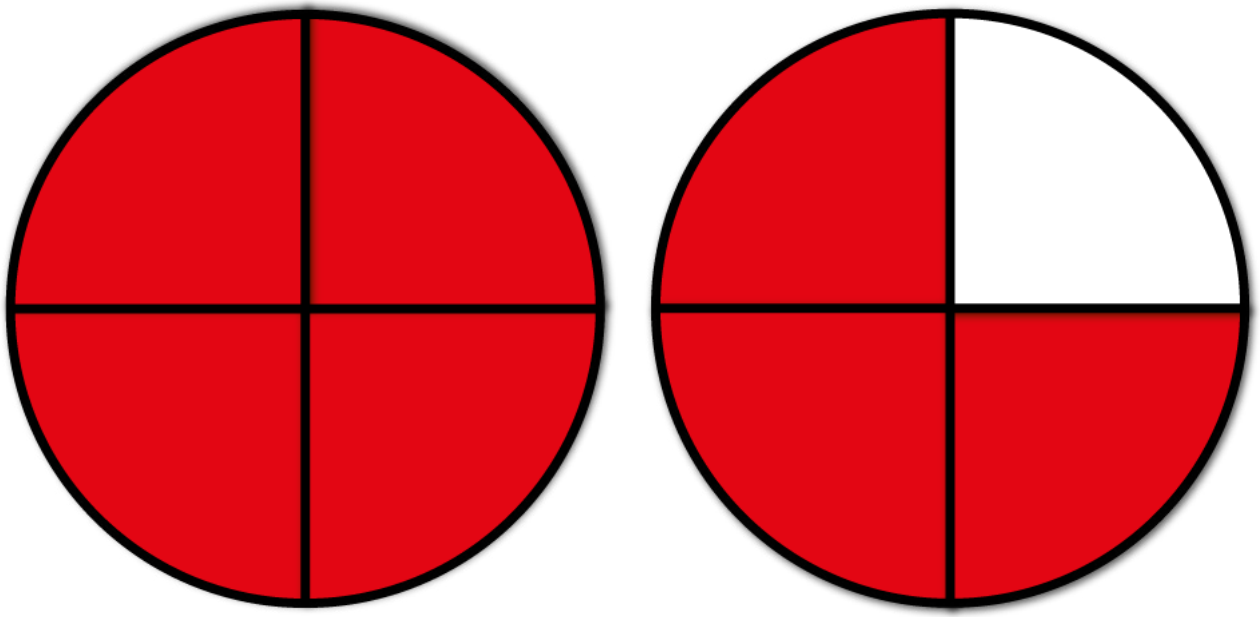


FJ: Fractions Greater than 1

2

$1\frac{3}{4}$

$\frac{7}{4}$

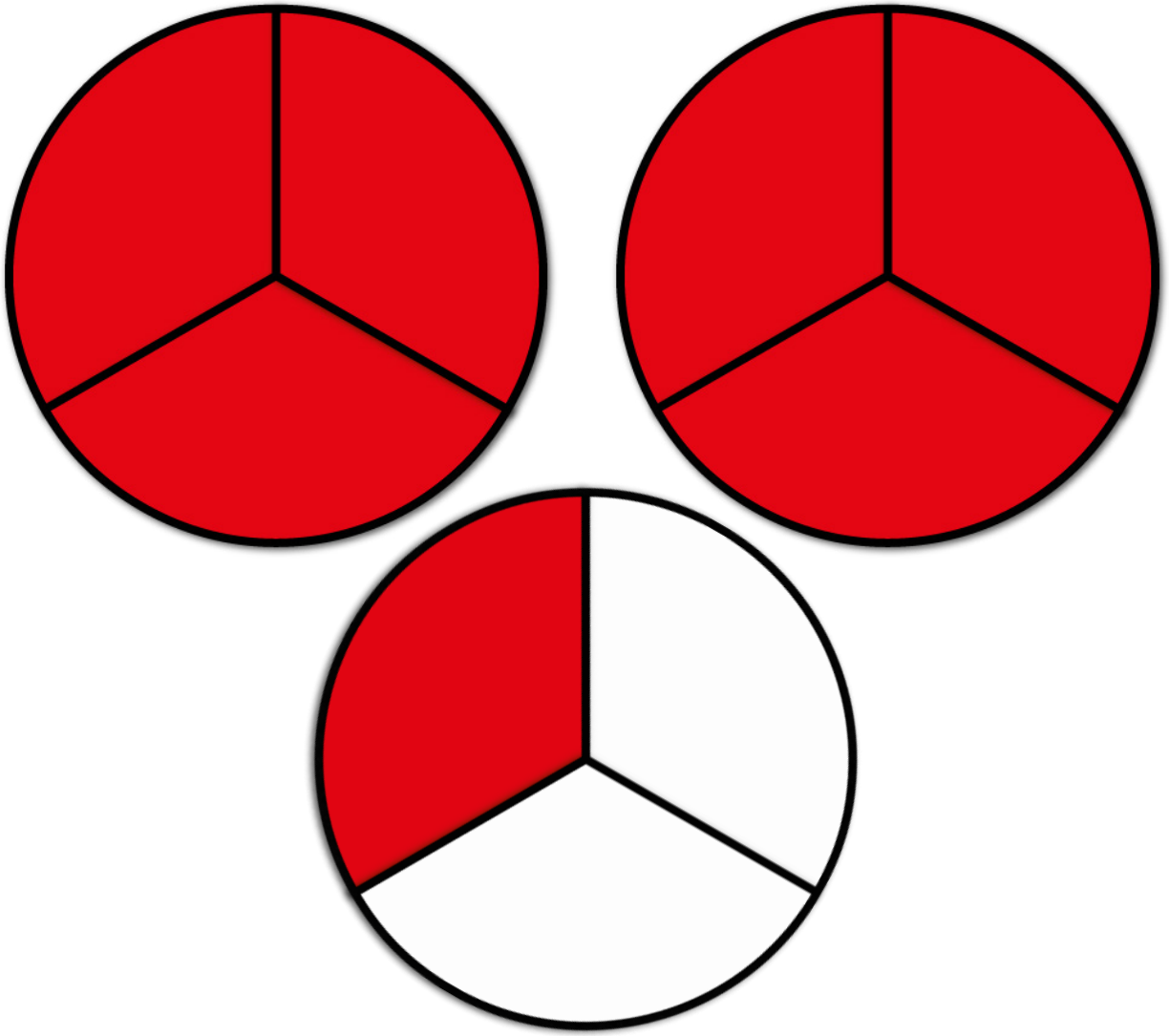


FJ: Fractions Greater than 1

3

$2\frac{1}{3}$

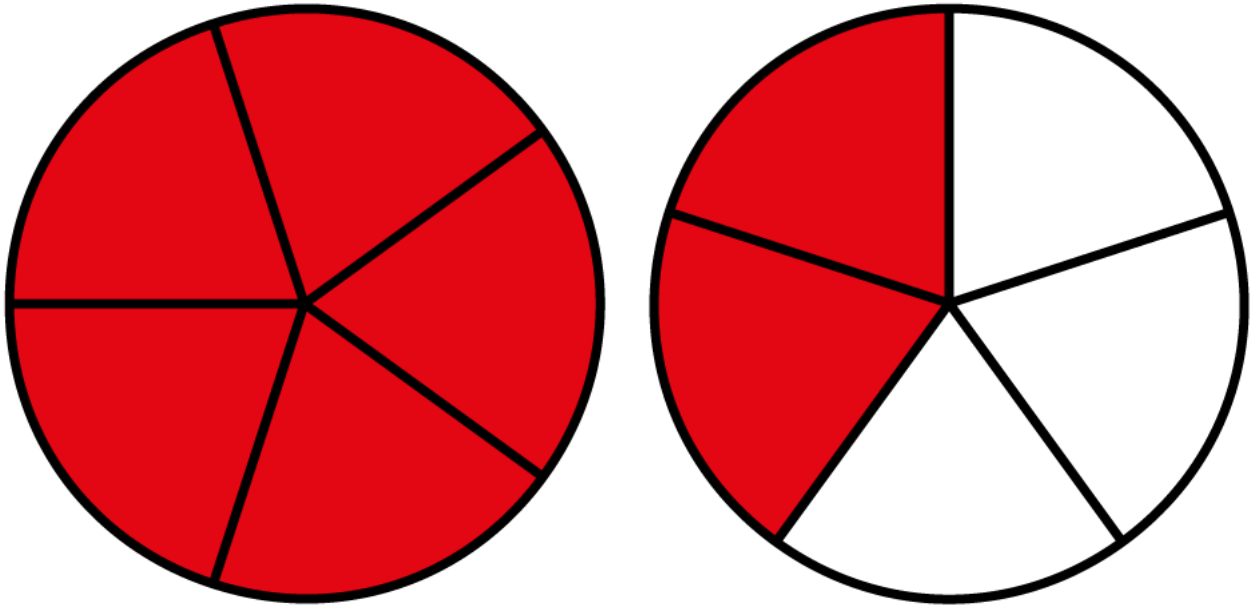
$\frac{7}{3}$



FJ4: Fractions Greater than 1

$1\frac{2}{5}$

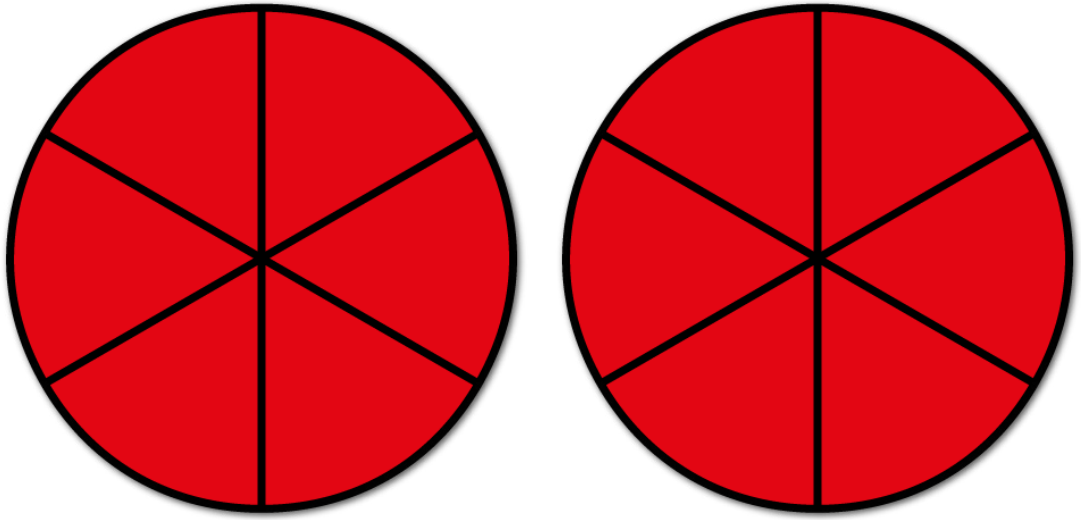
$\frac{7}{5}$



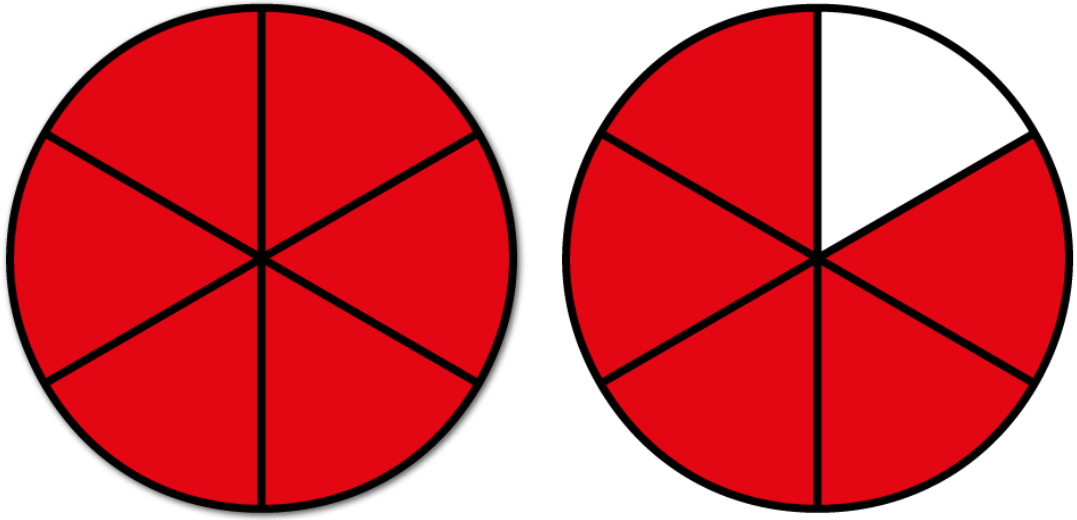
FJ: Fractions Greater than 1

5

$3\frac{5}{6}$



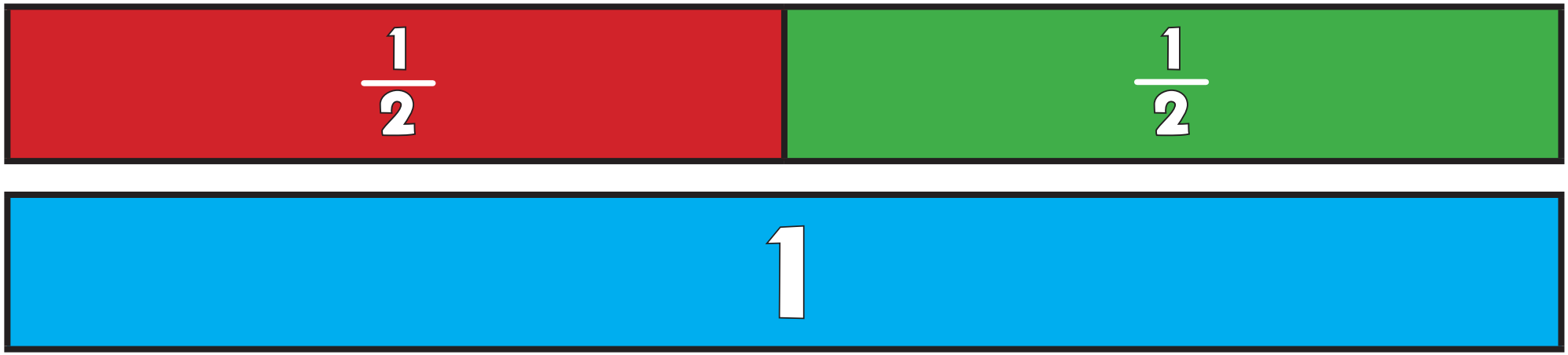
$\frac{23}{6}$



FK: Calculating with Fractions

1+

$$\frac{1}{2} + \frac{1}{2} = 1$$

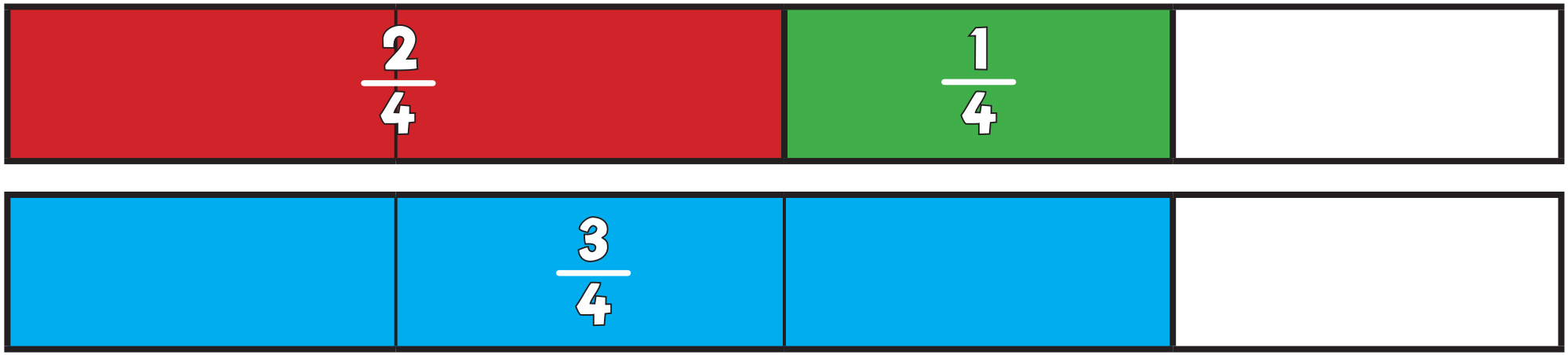


Newchurch Community Primary

FK: Calculating with Fractions

2+

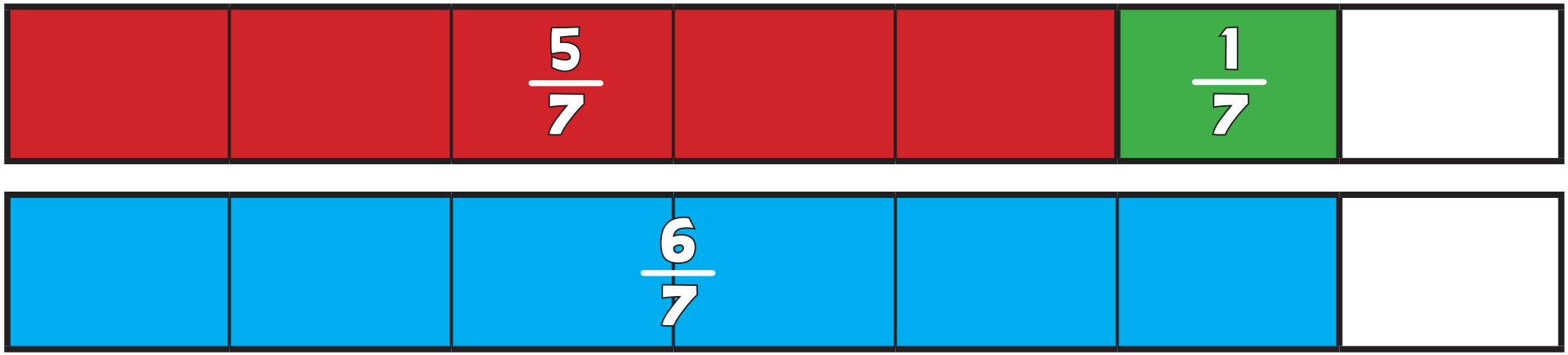
$$\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$$



FK: Calculating with Fractions

3+

$$\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$$

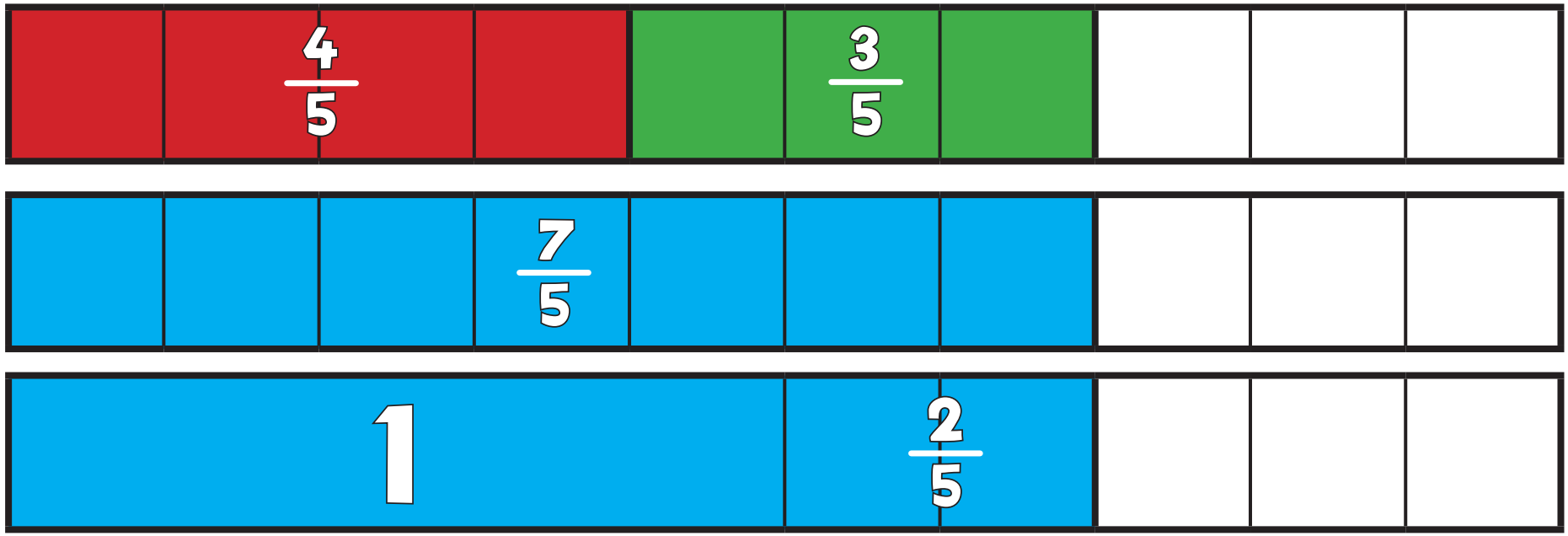


Newchurch Community Primary

FK: Calculating with Fractions

4+

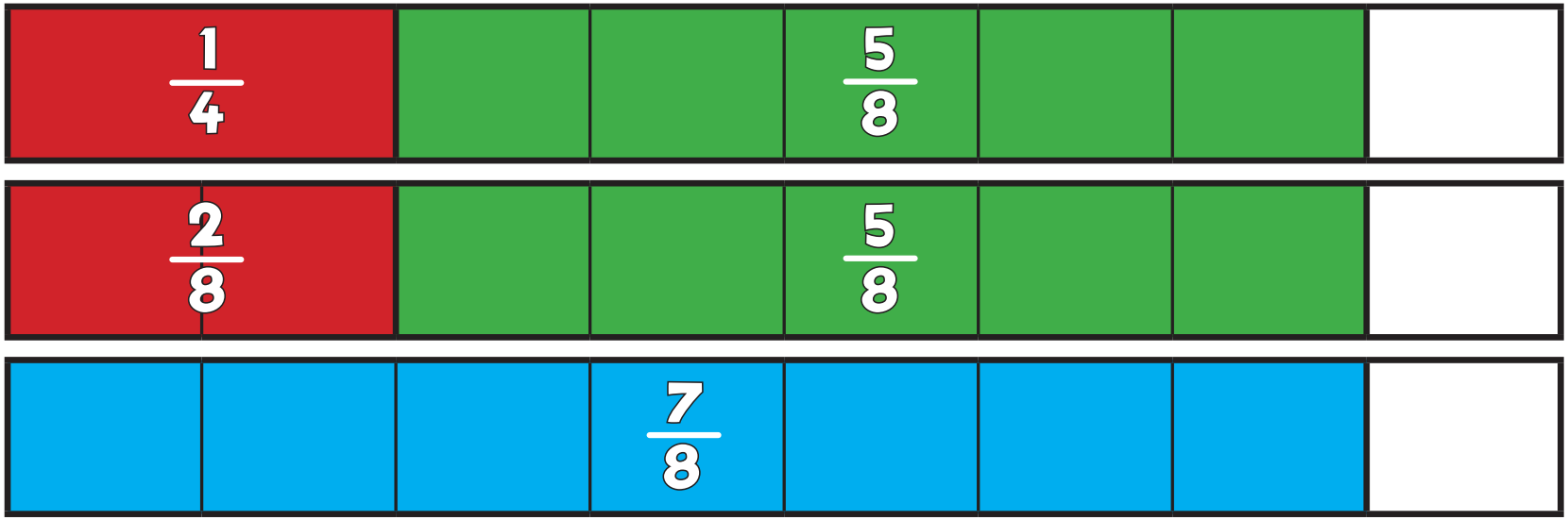
$$\frac{4}{5} + \frac{3}{5} = \frac{7}{5} = 1\frac{2}{5}$$



FK: Calculating with Fractions

5+

$$\frac{1}{4} + \frac{5}{8} = \frac{2}{8} + \frac{5}{8} = \frac{7}{8}$$

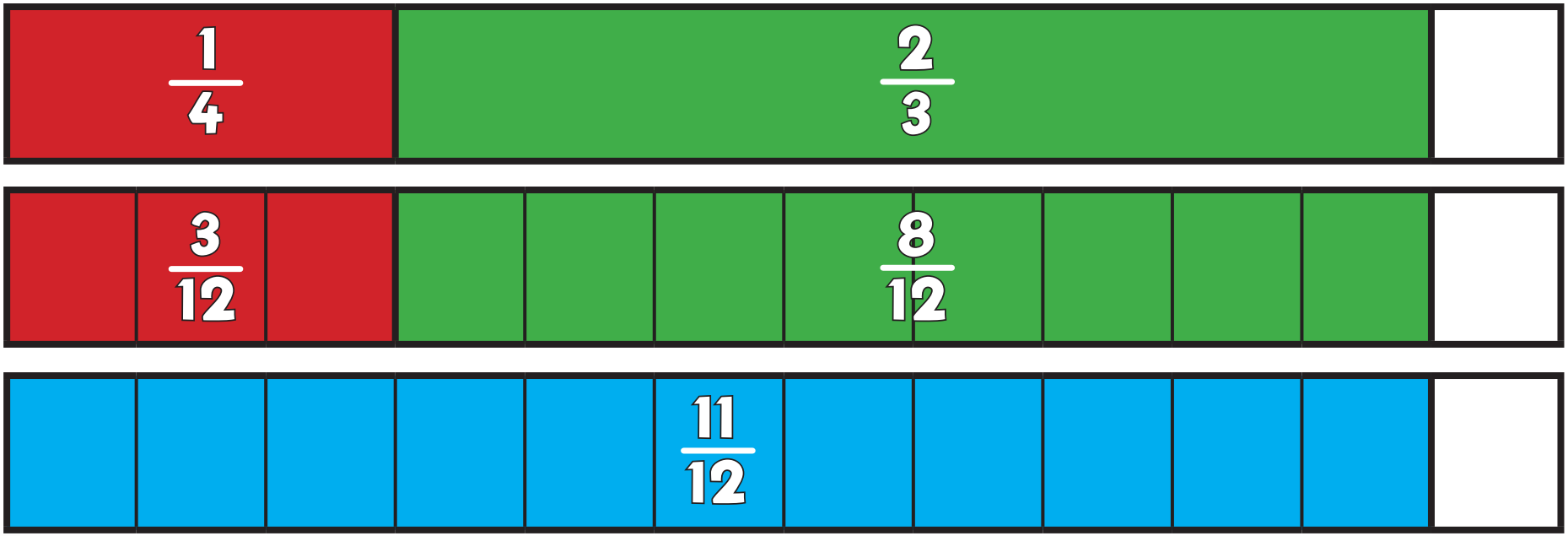


Newchurch Community Primary

FK: Calculating with Fractions

6+a

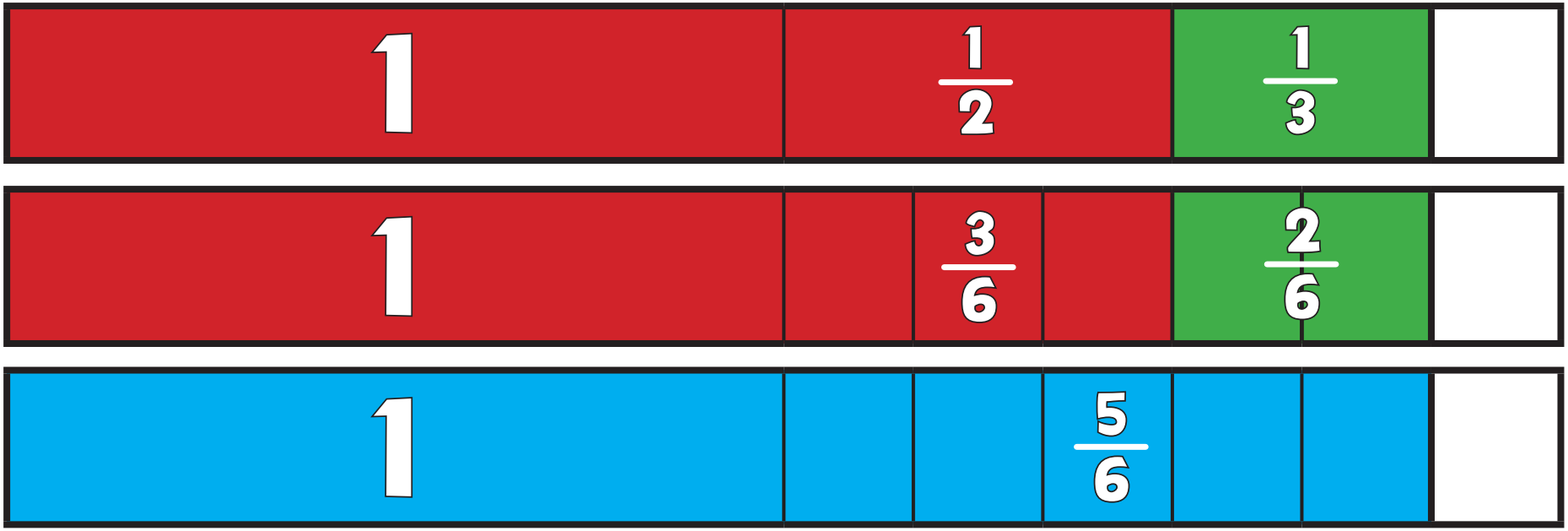
$$\frac{1}{4} + \frac{2}{3} = \frac{3}{12} + \frac{8}{12} = \frac{11}{12}$$



FK: Calculating with Fractions

6+b

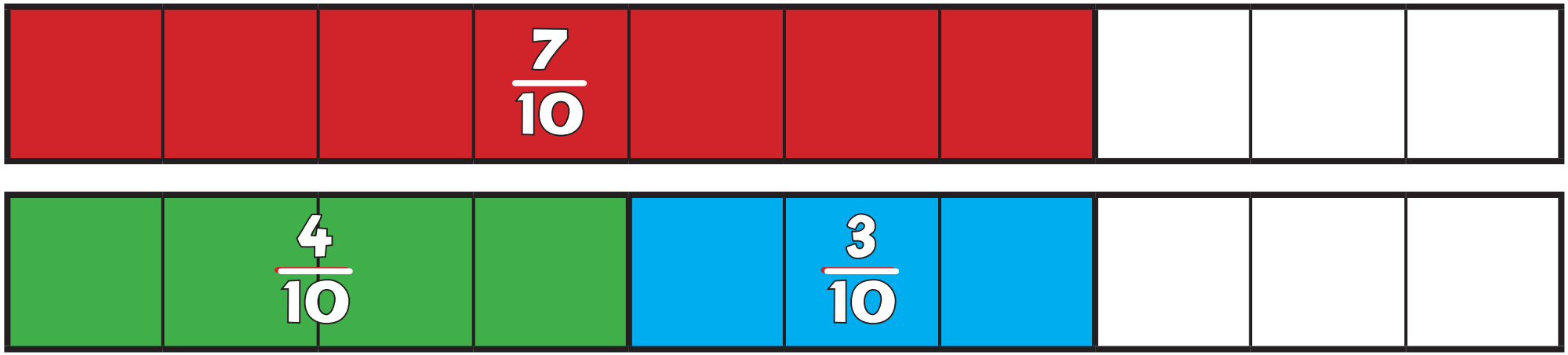
$$1\frac{1}{2} + \frac{1}{3} = 1\frac{3}{6} + \frac{2}{6} = 1\frac{5}{6}$$



FK: Calculating with Fractions

3-

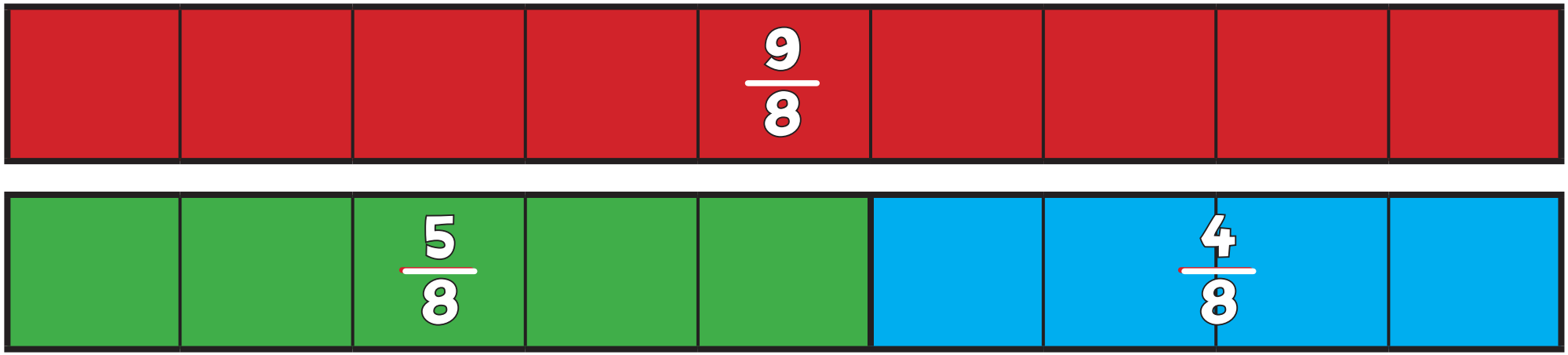
$$\frac{7}{10} - \frac{4}{10} = \frac{3}{10}$$



FK: Calculating with Fractions

4-

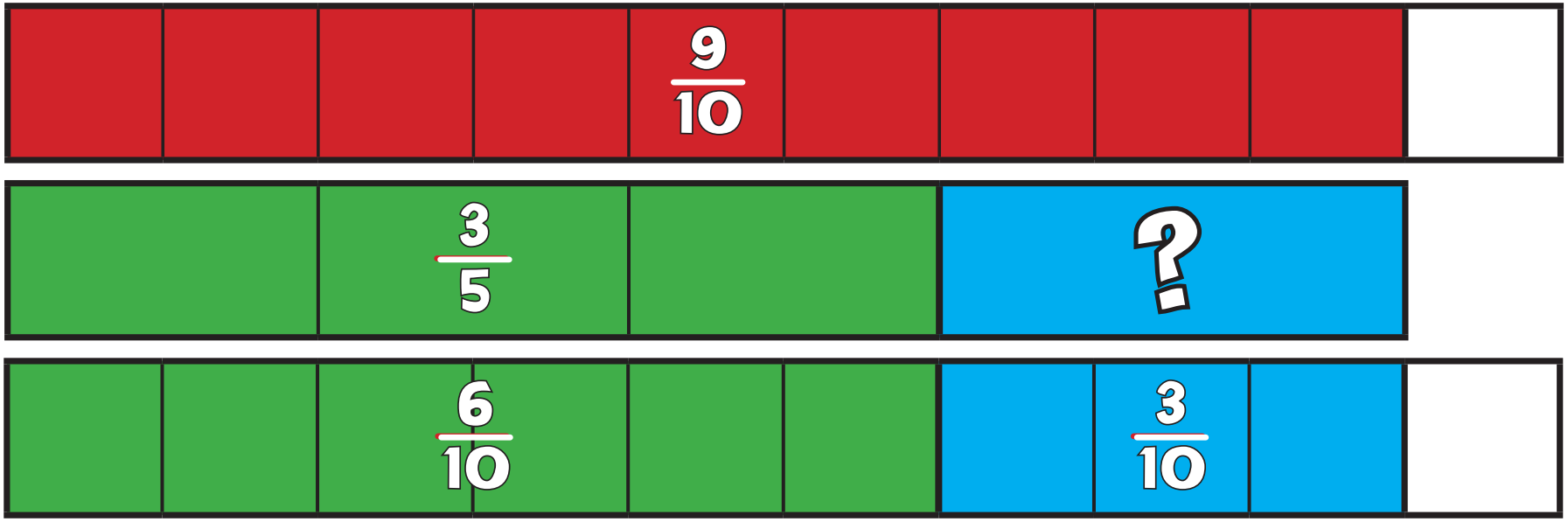
$$\frac{9}{8} - \frac{5}{8} = \frac{4}{8}$$



FK: Calculating with Fractions

5-

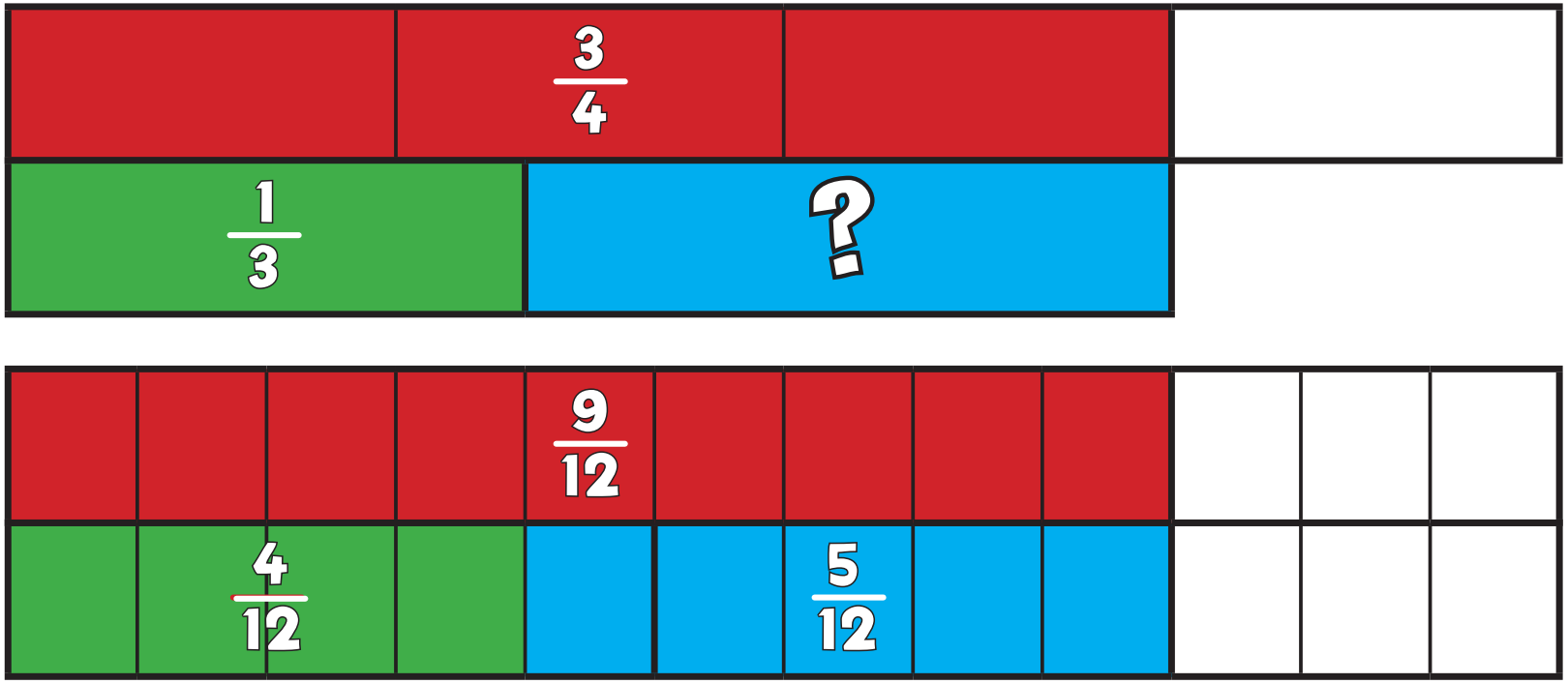
$$\frac{9}{10} - \frac{3}{5} = \frac{3}{10}$$



FK: Calculating with Fractions

6-a

$$\frac{3}{4} - \frac{1}{3} = \frac{9}{12} - \frac{4}{12} = \frac{5}{12}$$

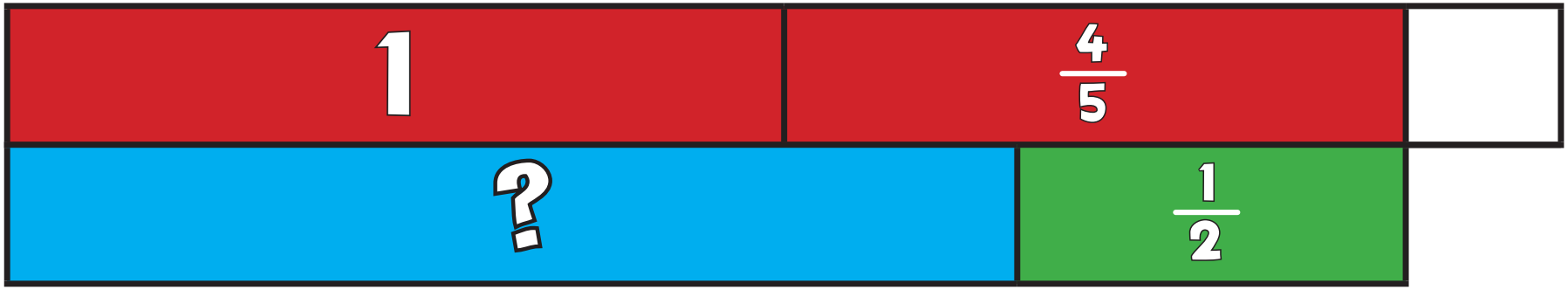


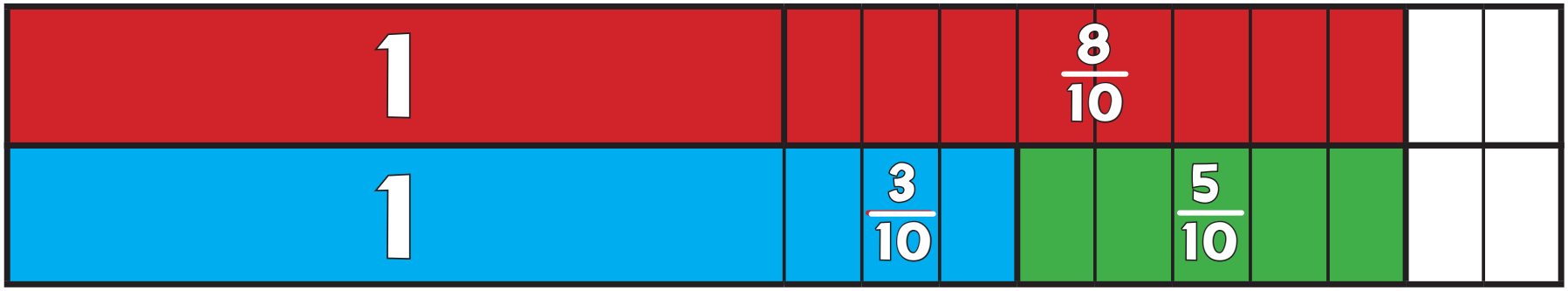
Newchurch Community Primary

FK: Calculating with Fractions

6-b

$$1\frac{4}{5} - \frac{1}{2} = 1\frac{8}{10} - \frac{5}{10} = 1\frac{3}{10}$$



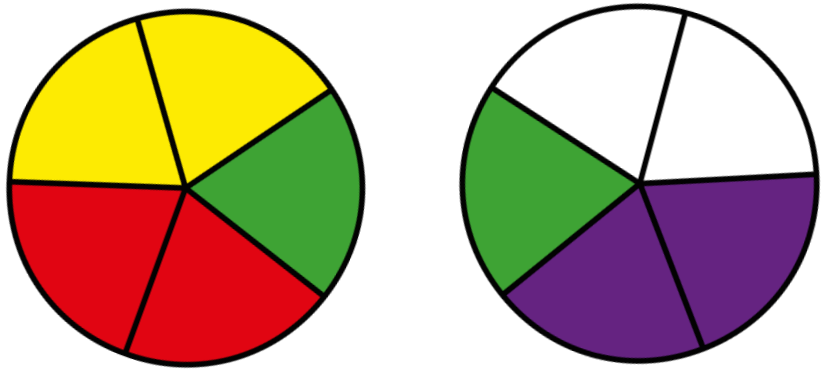


Newchurch Community Primary

FK: Calculating with Fractions

5xa

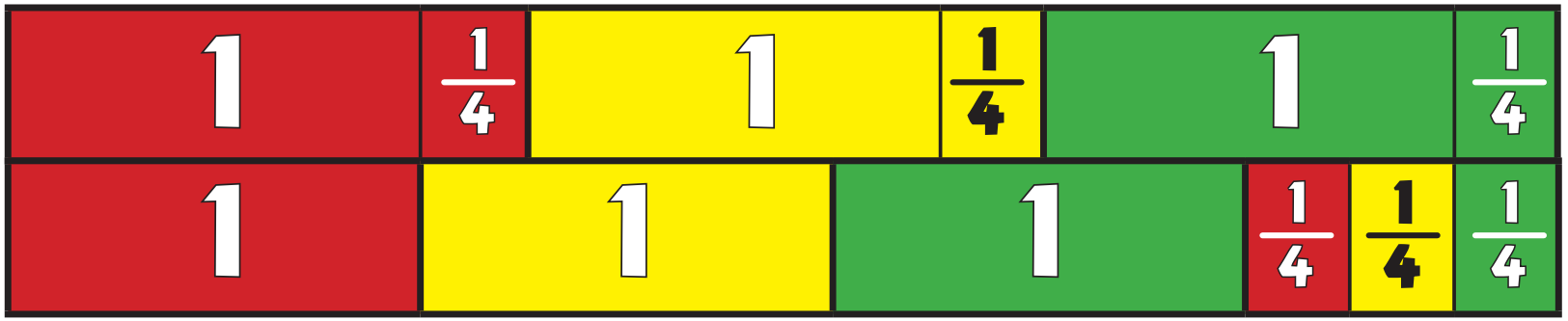
$$\frac{2}{5} \times 4 = \frac{8}{5} = 1\frac{3}{5}$$

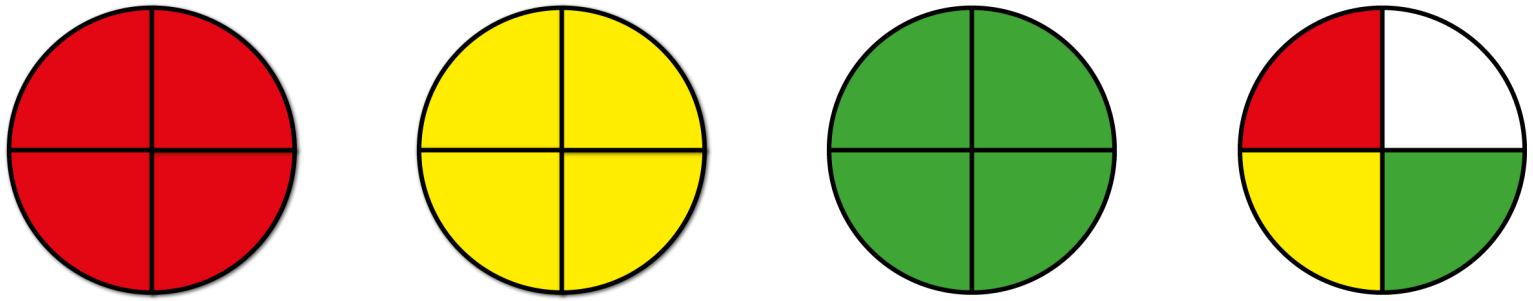


FK: Calculating with Fractions

5xb

$$1\frac{1}{4} \times 3 = 3\frac{3}{4}$$





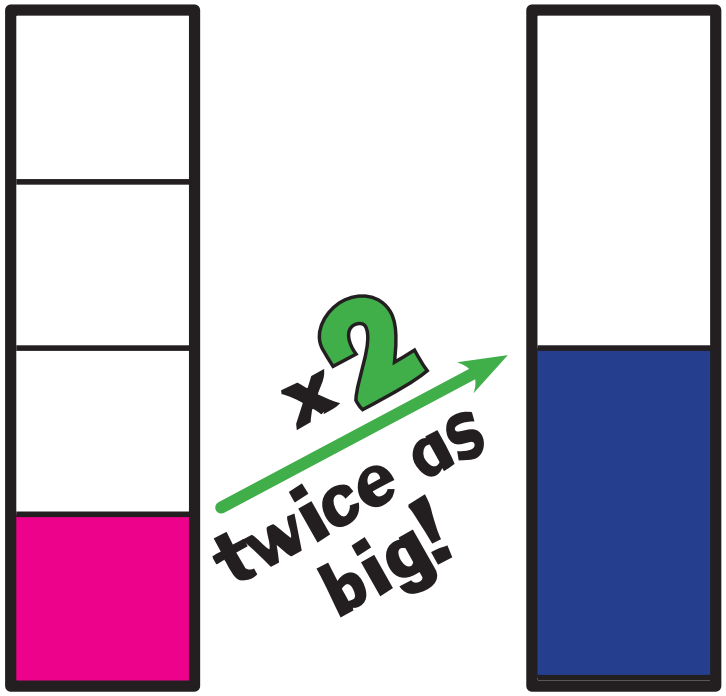
Newchurch Community Primary

FK: Calculating with Fractions

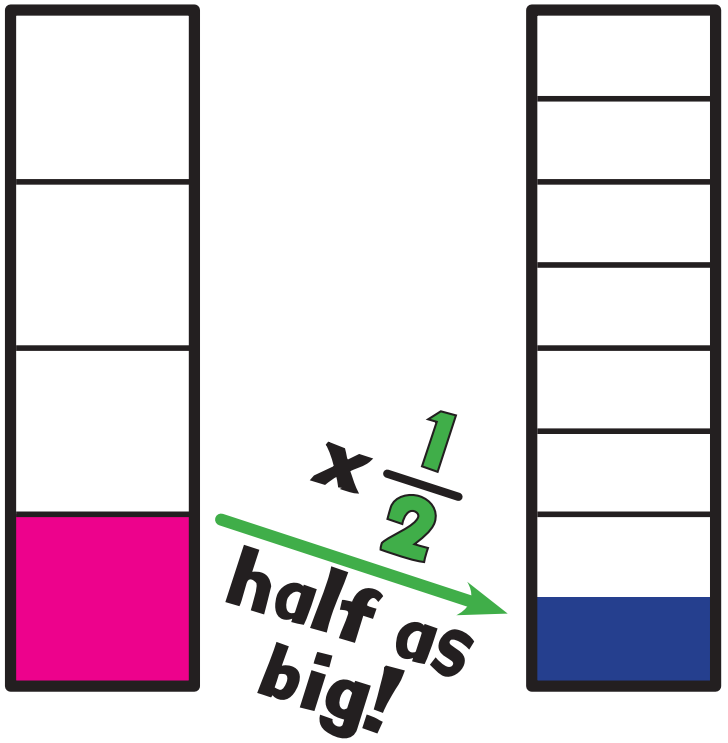
6xa

Scaling Model

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



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



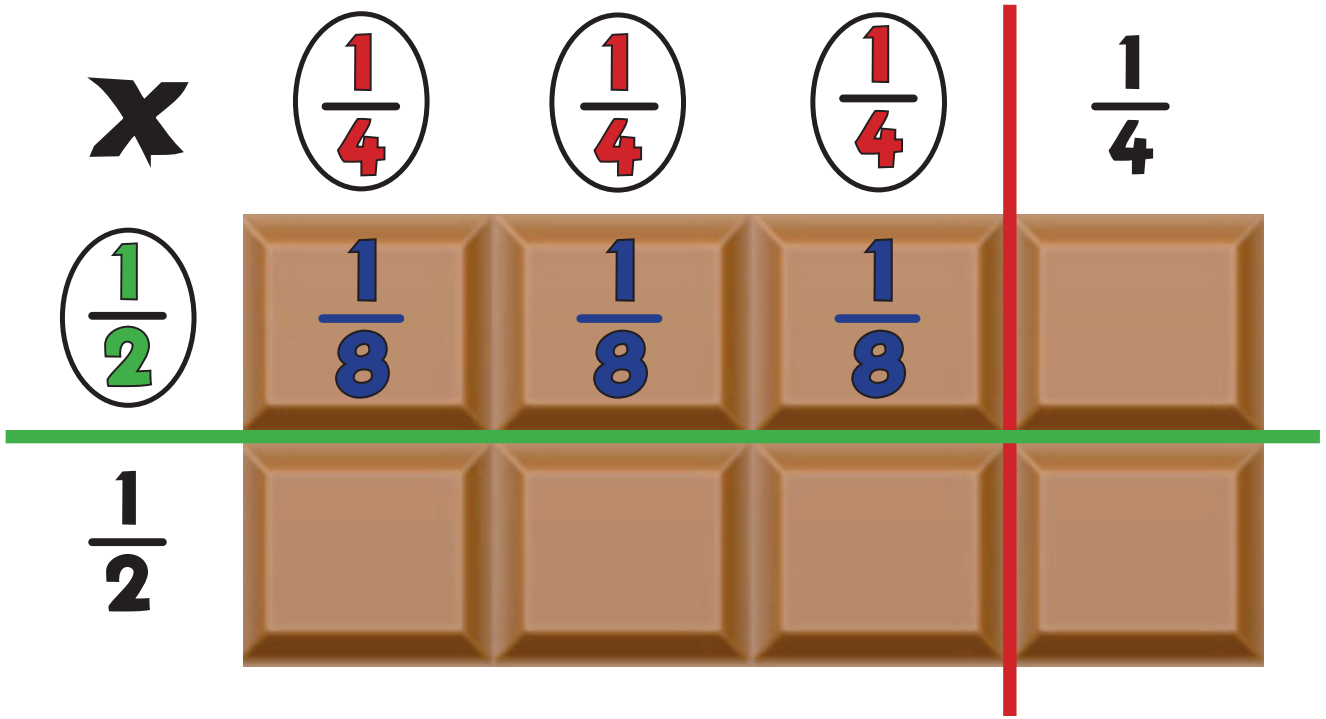
Newchurch Community Primary

FK: Calculating with Fractions

6xb

"If I had three quarters of a chocolate bar, and gave you half of what I had, how much of the whole bar would you get? Answer: Three eighths."

$$\frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$$



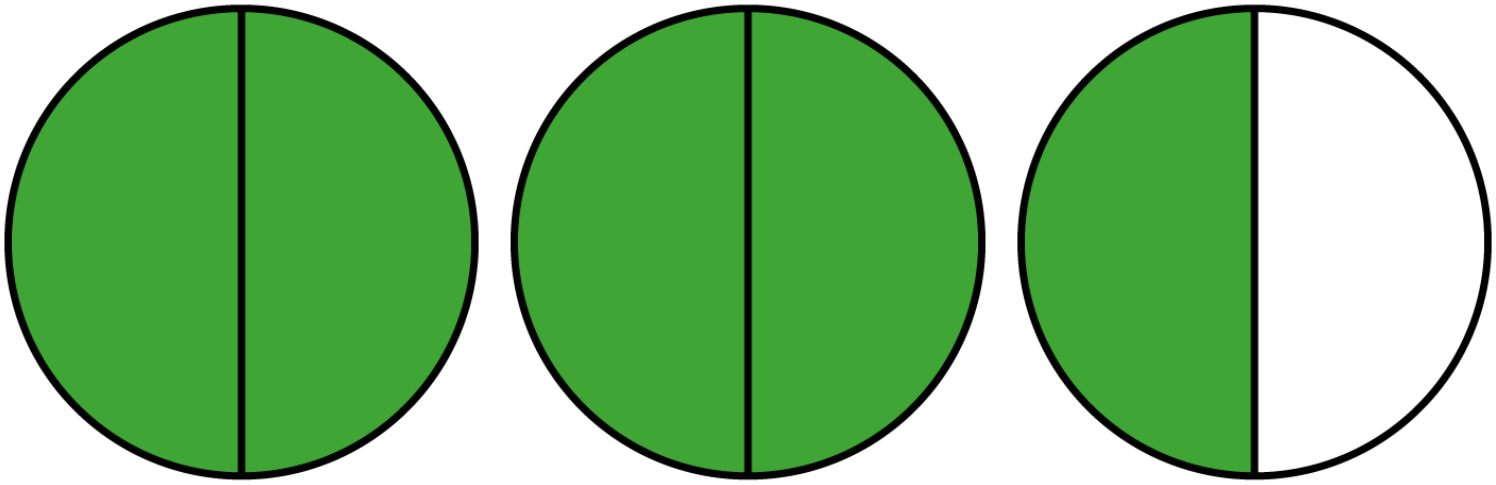
FK: Calculating with Fractions

5÷a

Grouping Model - Dividing by a Fraction

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

"How many halves can I fit into a 2 and a half?
Answer: 5."



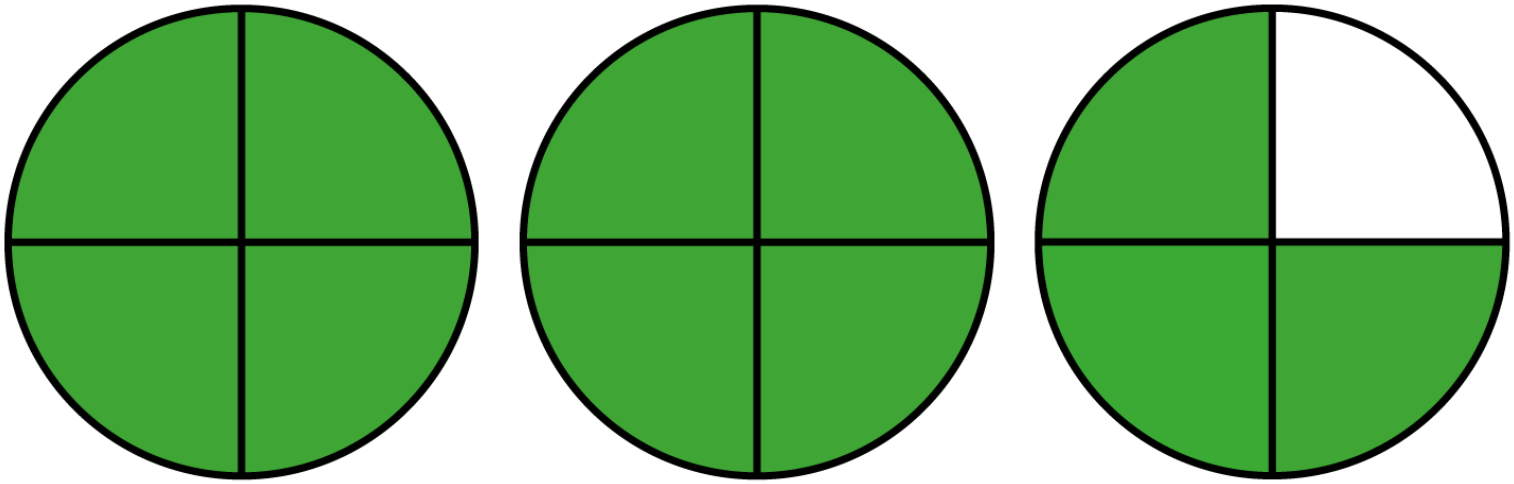
FK: Calculating with Fractions

5÷b

Grouping Model - Dividing by a Fraction

$$2\frac{1}{4} \div \frac{1}{4} = 9$$

"How many quarters can I fit into a 2 and a quarter?
Answer: 9."



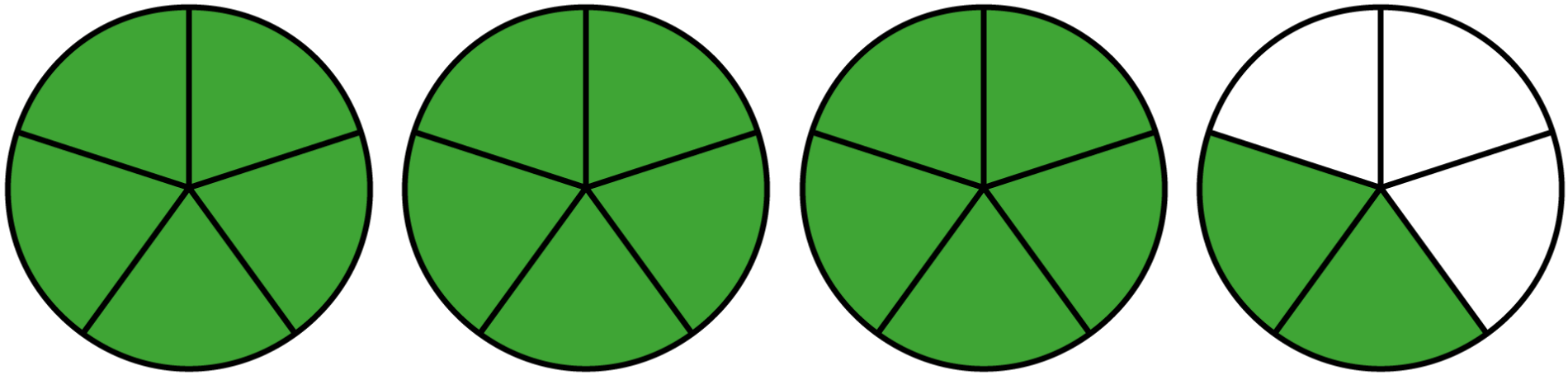
FK: Calculating with Fractions

6÷a

Grouping Model - Dividing by a Fraction

$$3\frac{2}{5} \div \frac{1}{5} = 17$$

"How many fifths can I fit into a 3 and 2 fifths? Answer: 17."



Newchurch Community Primary

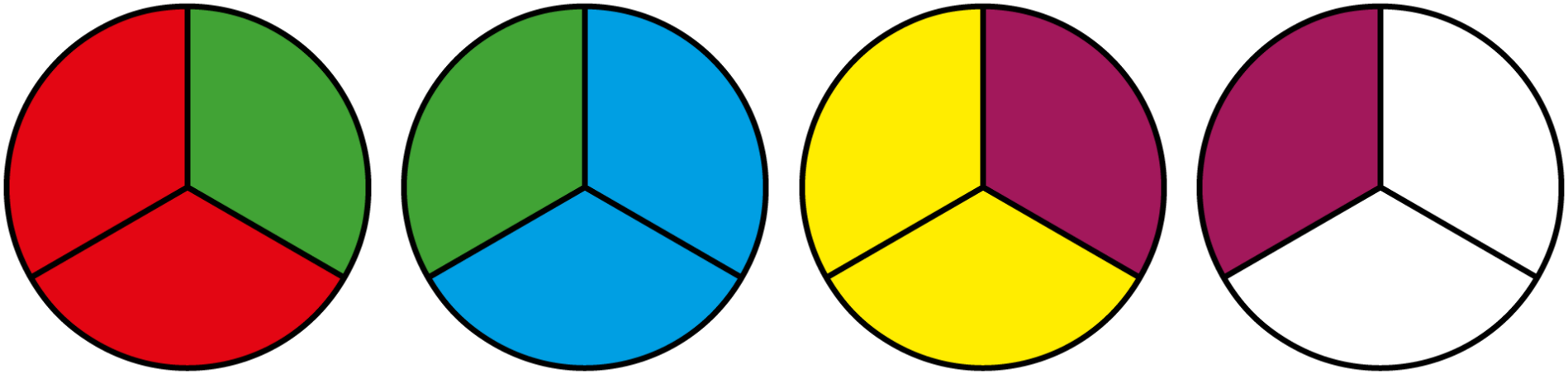
FK: Calculating with Fractions

6÷b

Grouping Model - Dividing by a Fraction

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

"How many two-thirds can I fit into a 3 and a third? Answer: 5."



Newchurch Community Primary

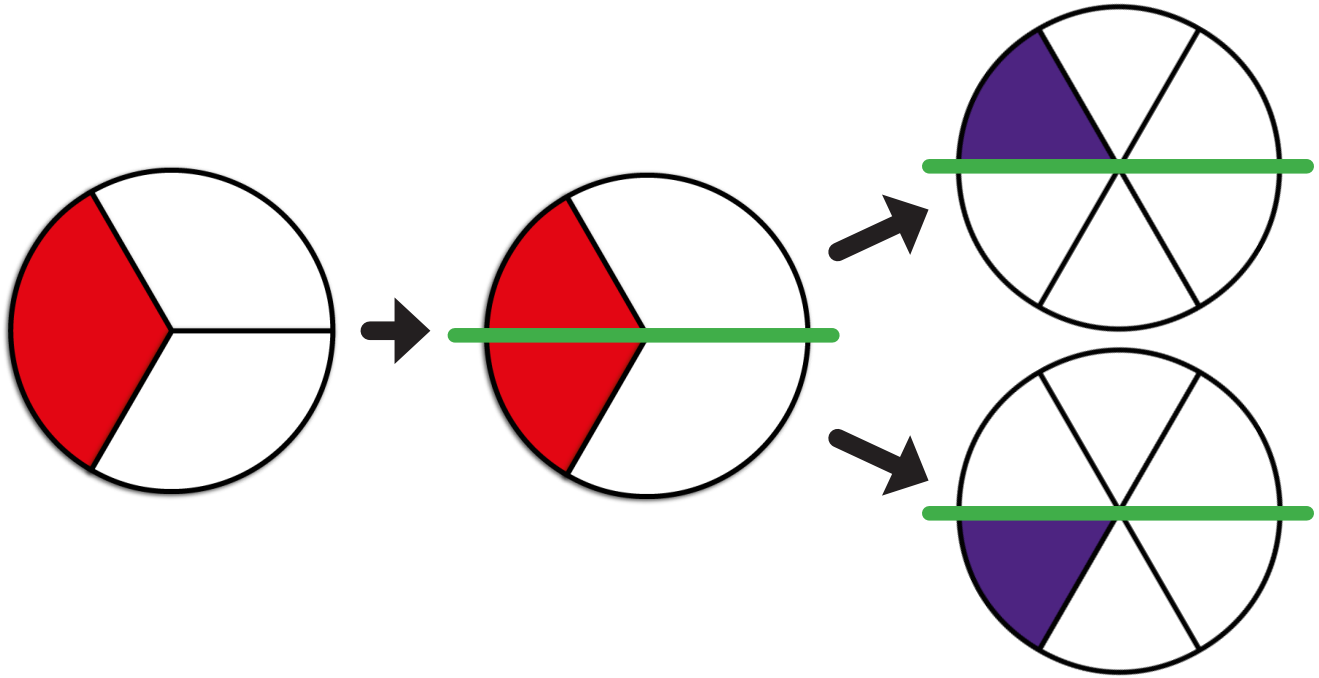
FK: Calculating with Fractions

6÷c

Sharing Model - Dividing a fraction by a whole number

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

"If I share a third into 2 equal amounts, how much in each group?" Answer: A sixth



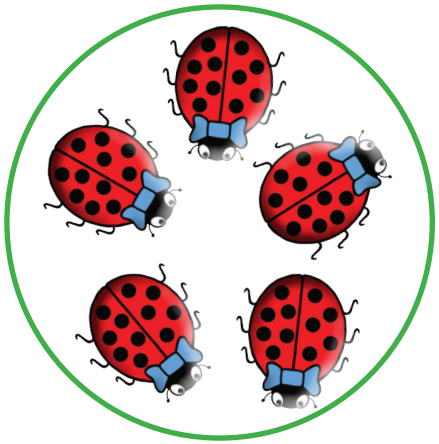
FL: Division as a Fraction

3

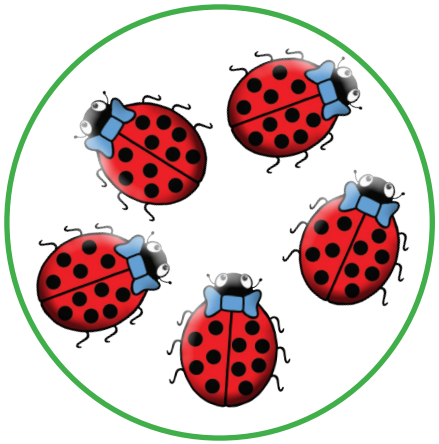
Sharing Model

$\frac{1}{4}$ of 20 = 20 ÷ 4 = 5

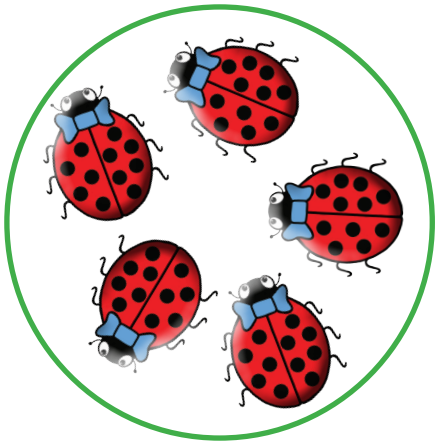
$\frac{1}{4}$



$\frac{1}{4}$



$\frac{1}{4}$



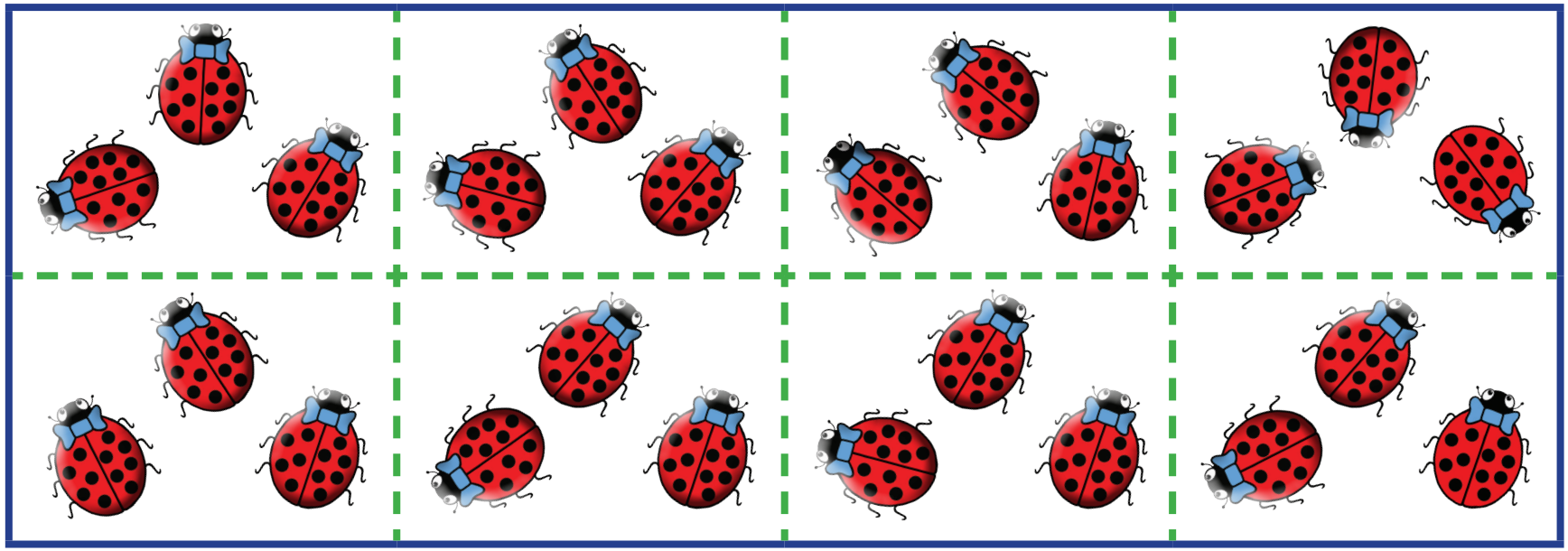
$\frac{1}{4}$

FL: Division as a Fraction

4a

Sharing Model

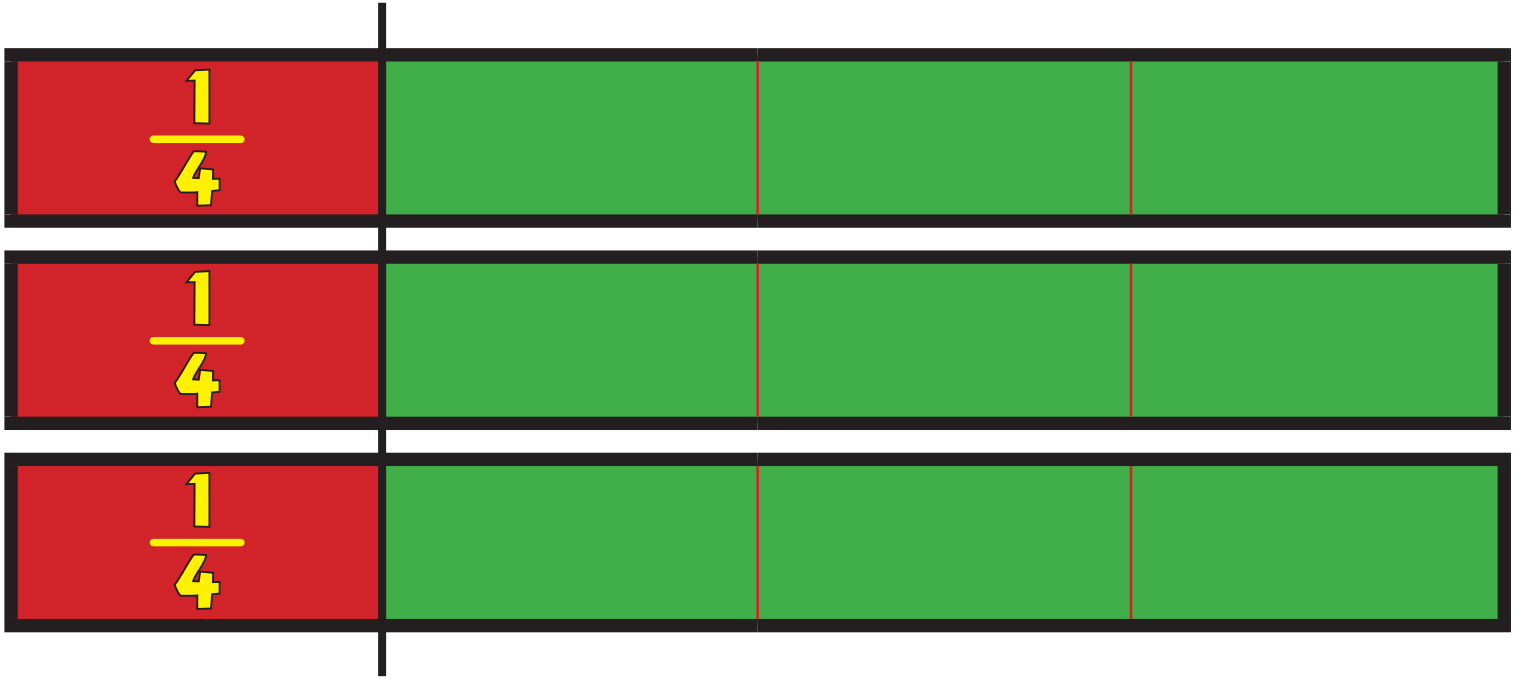
$\frac{1}{8}$ of 24 = 24 ÷ 8 = 3



FL: Division as a Fraction

4b

$\frac{1}{4}$ of 3 = 3 ÷ 4 = $\frac{3}{4}$



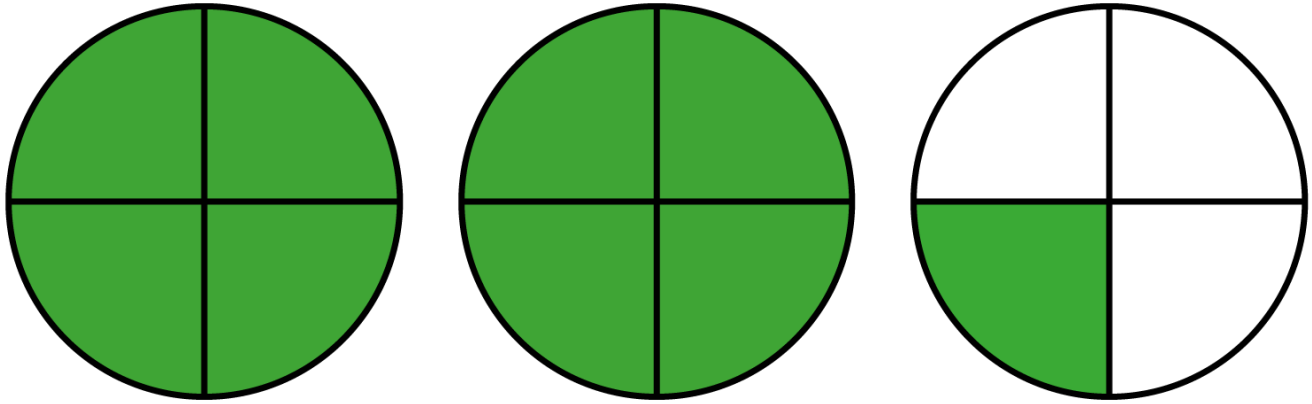
Newchurch Community Primary

FL: Division as a Fraction

5a

Mixed Number Model

$\frac{1}{4}$ of $9 = 9 \div 4 = \frac{9}{4} = 2\frac{1}{4}$



(9 quarters = 2 and a quarter)

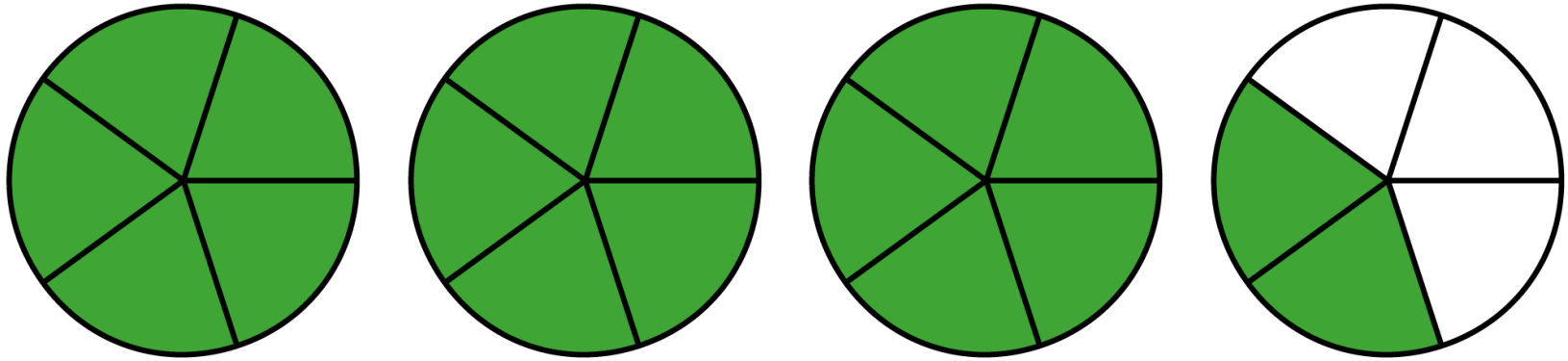
FL: Division as a Fraction

5b

Mixed Number Model

$$\frac{1}{5} \text{ of } 17 = 17 \div 5 = \frac{17}{5} = 3\frac{2}{5}$$

(3.4)



(17 fifths = 3 and 2 wholes)

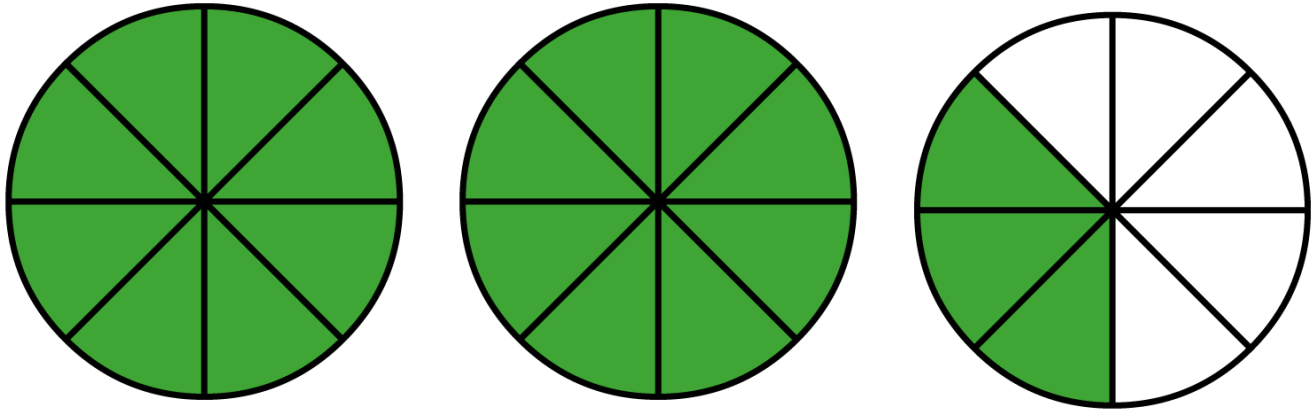
FL: Division as a Fraction

6a

Mixed Number Model

$\frac{1}{8}$ of 19 = 19 ÷ 8 = $\frac{19}{8}$ = $2\frac{3}{8}$

(2.375)



(19 eighths = 2 and 3 eighths)

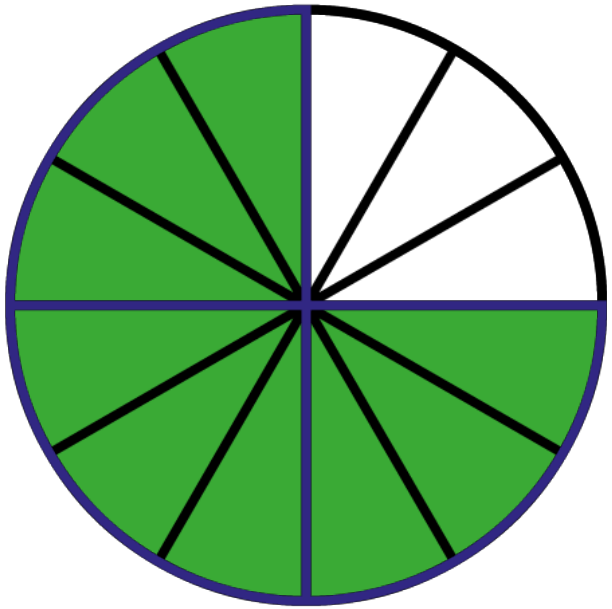
FL: Division as a Fraction

6b

Mixed Number Model

$$\frac{1}{12} \text{ of } 9 = 9 \div 12 = \frac{9}{12} = \frac{3}{4}$$

(0.75)



(9 twelfths = 3 quarters)

FM: Jump!

5

1000	100	10	1	■	$\frac{1}{10}$	$\frac{1}{100}$
		3	4	0	0	
			3	4	0	
				3	4	
			3	■	4	
		0	■	3	4	

×100

×10

÷10

÷100

FM: Remainders = 5r2!

6

$22 \div 4 = 5\frac{1}{2}$
$= 5r2$
$= 5.5$

$47 \div 9 = 5\frac{2}{9}$
$= 5r2$
$= 5.2\dot{}$

$42 \div 8 = 5\frac{2}{8}$
$= 5r2$
$= 5.25$

$27 \div 5 = 5\frac{2}{5}$
$= 5r2$
$= 5.4$

$52 \div 10 = 5\frac{1}{5}$
$= 5r2$
$= 5.2$

$17 \div 3 = 5\frac{2}{3}$
$= 5r2$
$= 5.6\dot{}$

$32 \div 6 = 5\frac{2}{6} = 5\frac{1}{3}$
$= 5r2$
$= 5.3\dot{}$

$37 \div 7 = 5\frac{2}{7}$
$= 5r2$
$= 5.\overline{285714}$