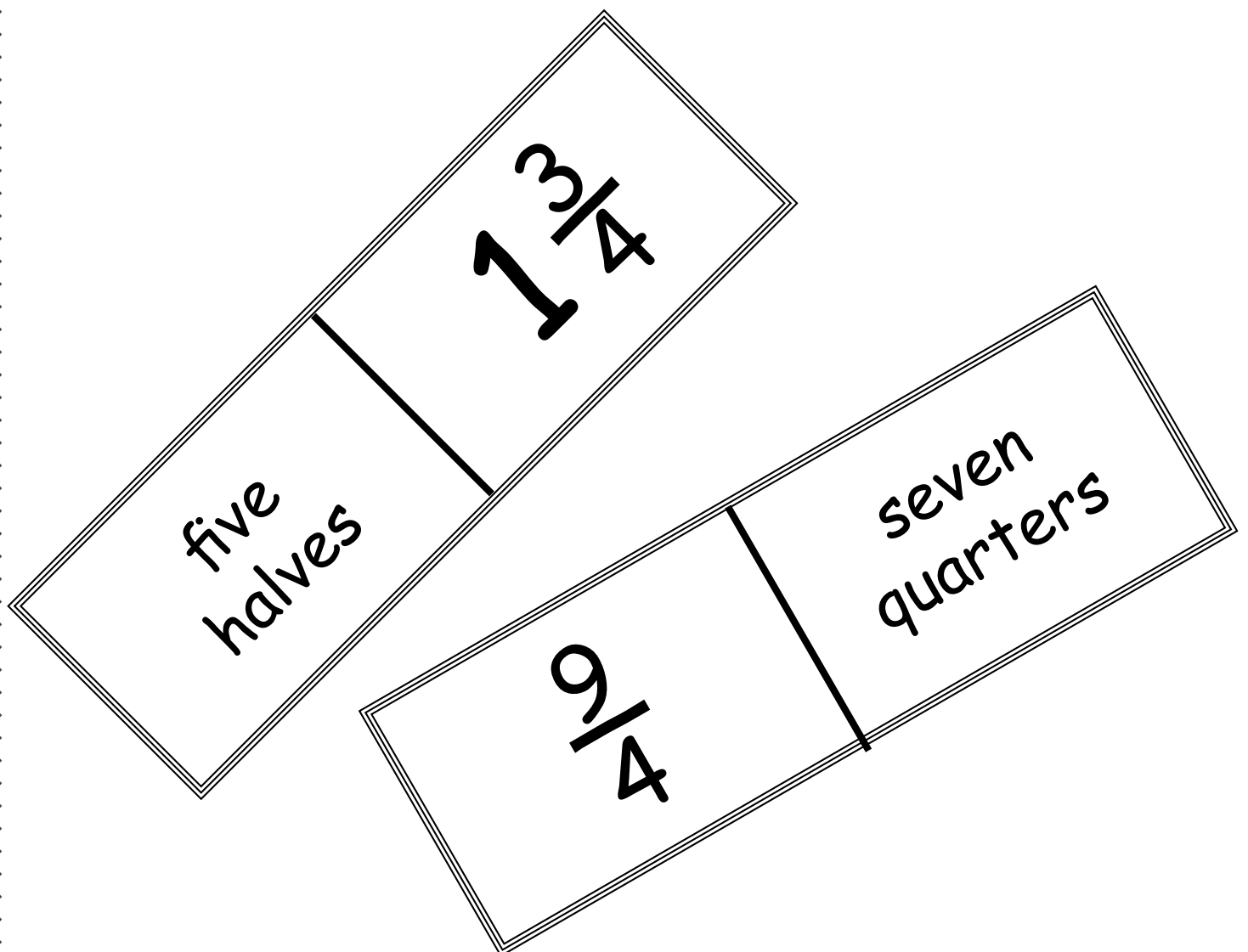


# Fraction Domino Loops



Work together to make  
your loop of dominoes

# Fraction Domino Loops

A simple activity to give children practice in talking fractions. There are four loops of eight and two of sixteen here so it's a good idea to print sets in different colours. Thought up at our maths development workshop on 12th November 2016. We have included a blank domino template to encourage children to create their own versions to try out on each other.

The webaddress for this activity is:

<http://www.collaborativelearning.org/fractionloops.pdf>

Last updated 27th November 2016

Our collaborative talk for learning activities are designed to:

...build on prior knowledge.

...move from concrete to abstract thinking.

...ensure everyone works with everyone else.

...extend social language into curriculum language.

...provide motivating ways to go over the same topic more than once.

For more details go to: [www.collaborativelearning.org](http://www.collaborativelearning.org)

## COLLABORATIVE LEARNING PROJECT

Project Director: Stuart Scott

We support a network of teaching professionals throughout the European Union to promote inclusive education. We develop and disseminate accessible talk-for-learning activities in all subject areas and for all ages.

17, Barford Street, Islington, London N1 0QB UK Phone: 0044 (0)20 7226 8885

Website: <http://www.collaborativelearning.org>

## BRIEF SUMMARY OF BASIC PRINCIPLES BEHIND OUR TEACHING ACTIVITIES:

The project is a teacher network, and a non-profit making educational trust. Our main aim is to develop and disseminate classroom tested examples of effective group strategies that promote talk across all phases and subjects. We hope they will inspire you to develop and use similar strategies in other topics and curriculum areas. We want to encourage you to change them and adapt them to your classroom and students. We run teacher workshops, swapshops and conferences throughout the European Union. The project posts online many activities in all subject areas. An online newsletter is also updated regularly.

\*These activities are influenced by current thinking about the role of language in learning. They are designed to help children learn through talk and active learning in small groups. They work best in non selective classes where children in need of language or learning support are integrated. They are well suited for the development of speaking and listening. They provide teachers opportunities for assessment of speaking and listening.

\*They support differentiation by placing a high value on what children can offer to each other on a particular topic, and also give children the chance to respect each other's views and formulate shared opinions which they can disseminate to peers. By helping them to take ideas and abstract concepts, discuss, paraphrase and move them about physically, they help to develop thinking skills.

\*They give children the opportunity to participate in their own words and language in their own time without pressure. Many activities can be tried out in pupils' first languages and afterwards in English. A growing number of activities are available in more than one language, not translated, but mixed, so that you may need more than one language to complete the activity.

\*They encourage study skills in context, and should therefore be used with a range of appropriate information books which are preferably within reach in the classroom.

\*They are generally adaptable over a wide age range because children can bring their own knowledge to an activity and refer to books at an appropriate level. The activities work like catalysts.

\*All project activities were planned and developed by teachers working together, and the main reason they are disseminated is to encourage teachers to work more effectively with each other inside and outside the classroom. They have made it possible for mainstream and language and learning support teachers to share an equal role in curriculum delivery. They should be adapted to local conditions. In order to help us keep pace with curriculum changes, please send any new or revised activities back to the project, so that we can add them to our lists of materials.

# Ways to play - please think up more!

Two or three participants can work together to make the domino loop as quickly as possible using a timer to check their time. Two teams can compete. Pairs or threes can devise their own versions to try out on other members of the class. You will we hope end up with enough versions for the whole class to compete with each other.

You might also take one or two dominoes out of a set and ask children to produce the missing domino(es).

# Fraction Domino Loops - two loops of eight

Cut out dominoes along dotted lines

five halves	$1\frac{3}{4}$	seven quarters	$\frac{9}{4}$
$2\frac{1}{4}$	$\frac{6}{8}$	$\frac{3}{4}$	$10\frac{1}{2}$
eleven halves	$3\frac{2}{3}$	$\frac{11}{3}$	$\frac{7}{3}$
$2\frac{1}{3}$	4	$\frac{12}{3}$	$2\frac{1}{2}$
a half	two halves	three thirds	six thirds
two	three halves	one and a half	three
nine thirds	two and a half	ten quarters	five quarters
one and a quarter	one and a third	four thirds	two quarters

# Fraction Domino Loops - one loop of sixteen

Cut out dominoes along dotted lines

$1\frac{3}{4}$	$2\frac{3}{4}$	eleven quarters	$3\frac{1}{3}$
ten thirds	$4\frac{1}{2}$	nine halves	5
twenty five fifths	$\frac{10}{5}$	four halves	$5\frac{1}{3}$
$\frac{16}{3}$	$\frac{10}{10}$	five fifths	$1\frac{1}{10}$
$\frac{11}{10}$	$\frac{3}{5}$	three fifths	$\frac{4}{4}$
1	$1\frac{1}{2}$	fifteen tenths	$\frac{1}{10}$
one tenth	two fifths	$\frac{2}{5}$	$1\frac{1}{10}$
eleven tenths	$1\frac{4}{5}$	nine fifths	$\frac{7}{4}$

# Fraction Domino Loops - one loop of sixteen

Cut out dominoes along dotted lines

eleven quarters	three thirds	five fifths	fifteen fifths
thirty tenths	four and a half	nine halves	three and three quarters
fifteen quarters	two tenths	one fifth	twelve thirds
four	six quarters	one and a half	a half of twelve
twelve halves	two and two thirds	eight thirds	a quarter of eight
two	two thirds	four sixths	six fifths
one and a fifth	five tenths	one half	half of one and a half
three quarters	ten and one tenth	one hundred and one tenths	two and three quarters

# Two tricky loops of eight

Cut out dominoes along dotted lines

half of  
a half

half of one  
and a half

three  
quarters

a fifth of  
ten

half of  
four

half of five  
and a half

two and  
three  
quarters

three fifths  
of ten

one third of  
eighteen

two thirds  
of eighteen

twice three  
fifths of ten

half of a  
fifth

a tenth

half of  
three  
quarters

three  
eighths

a third  
of three  
quarters

$\frac{4}{8}$

half of  
three and a  
half

$1\frac{3}{4}$

two thirds  
of nine

6

$4\frac{3}{4}$

half of nine  
and and  
half

$\frac{2}{5}$

two fifths

$3\frac{2}{5}$

twelve  
fifths

$\frac{9}{4}$

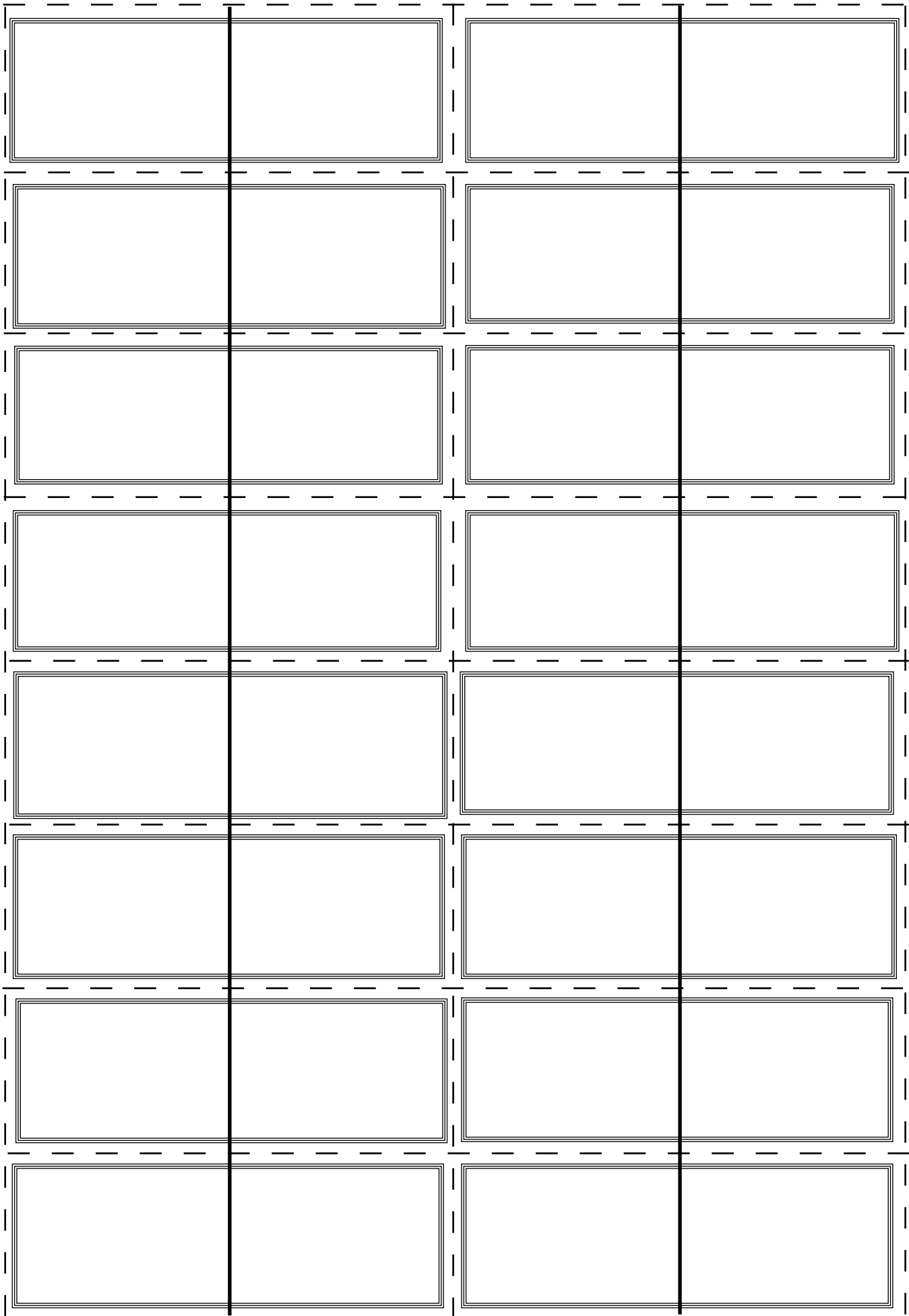
half of four  
and and  
half

$\frac{13}{4}$

$3\frac{1}{4}$

$\frac{2}{4}$

# Blank Dominoes Template



Cut out dominoes along dotted lines