

M1 Maths – Fun and Games

Fraction Dominoes

Aim

To develop fluency with recognising different expressions of the same fraction and with fraction conversion.

Procedure

Students sit in groups of four around a table.

They receive a set of 48 square cards made by copying the attached sheets onto card and cutting them up.

The card with the star is laid first. Players then lay other cards adjacent to the one(s) already laid. To lay a card, the fractions on the touching sides should be the same value, but different expression. For example, against a 0.4, one may lay a 40% or $\frac{2}{5}$, but not another 0.4.








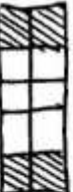
In this way the shape builds up. If a card is laid in a corner against 2 or more cards, it must match on all the sides.

The game can be played competitively or cooperatively.

In competitive mode, the students start by dealing out the cards equally. They then lay a card whenever they can see a place for it. The winner is the first person to lay all his or her cards or the person with the least cards remaining at the end of the available time. Don't get students to take turns, because this makes the game very slow and leaves students doing nothing for much of the time.

In cooperative mode, the cards are laid on the table and all four students position cards as they see places for them. The aim is to lay as many of the cards as possible.

Another alternative is for each table to play cooperatively, but to have a competition between the tables.

$15/100$  1.750	$20/30$ $6/9$ $5/5$	$99/100$ $99/100$ 2.5%	$99/100$ 30% 200%	$100/100$ 15% 200%	$99/100$ 15 $9/9$	$99/100$ 2.0	2.0  99
37.5% $4/10$ $33\frac{1}{3}\%$	$100/100$ 1 12.5%	90% $5/5$ 90%	$2/10$  33.3%	10 10 $37\frac{1}{2}\%$	$20/100$ $9/9$ $3/2$	$20/100$ 99	2 99 40%
240% 3 $4/5$	80%  1 3	50% 5 20%	20% $5/1$ 375	$1/2$ $10/4$ 50%	$6/20$ 2.00 12%	$30/100$  $2/5$	24%  $2/5$
2.4 9 $7/4$	$95/100$  90% 25	90% 69 $1/2$	3 3 $4/1$	$80/100$  9	$90/100$ 2.5 $12/5$	2.5 $2/5$	2.5 $12/5$

