

FRACTIONS, DECIMALS AND PERCENTAGES 1

TO PLAY THIS GAME YOU NEED:



AIM: To make the most lines of 3 with your coloured counters – horizontally, vertically or diagonally.

HOW TO PLAY: Pick a set of coloured counters each and decide who plays first. Players take turns. On your turn, choose a fraction from the circles in GRID 1 then find one equivalent value from each of the other grids. Cover your four circles with a counter. Continue until both players have used up their 16 counters. Count how many lines of three you have in total on all four grids.

GRID 1

$\frac{16}{32}$	$\frac{1}{4}$	$\frac{1}{25}$
$\frac{10}{25}$	$\frac{3}{5}$	$\frac{1}{20}$
$\frac{3}{4}$	$\frac{3}{50}$	$\frac{6}{20}$

GRID 2

$\frac{30}{100}$	$\frac{6}{100}$	$\frac{75}{100}$
$\frac{1}{2}$	$\frac{25}{100}$	$\frac{6}{10}$
$\frac{4}{100}$	$\frac{40}{100}$	$\frac{5}{100}$

Only play with 16 counters each.

GRID 3

0.75	0.05	0.06
0.04	0.4	0.5
0.25	0.6	0.3

GRID 4

60%	40%	30%
5%	6%	25%
75%	4%	50%



Dig's Questions:

1. I ate $\frac{2}{5}$ of a chocolate bar. What percentage of the chocolate bar did I eat?
2. I spent $\frac{4}{20}$ of my birthday money. What percentage of my birthday money did I spend?



Challenge:

I am thinking of a fraction that is equivalent to 87.5% and has a prime numerator. What is the fraction I am thinking of? Make up your own problems similar to this one to challenge a friend with.

Dig's Tips:

“When converting fractions to decimals, it's easier to work with fractions that have 10 or 100 as the denominator. Multiply decimals by 100 to convert them into percentages.”



Years 1 to 6 - Maths Activities & Games

Over 400 curriculum-aligned maths games providing an engaging and fun way for children to practise the maths skills learned in class

- Supporting **every Number target** in Year 1 to 6
- **Easily incorporated** into existing lesson plans
- Game format enables children to play with maths **together**
- Use in class or as home-learning exercises
- Available in year-group, key stage, and individual topic packs



Times Tables & Division Activities & Assessments

Downloadable PDF resource!

A comprehensive and engaging system of games and assessments that steadily progress children through the times-tables.

- Incorporates division alongside multiplication activities
- Regularly refers to previously completed tables in order to constantly refresh knowledge
- Assessments and Progress trackers are included
- A resource that families can also access!



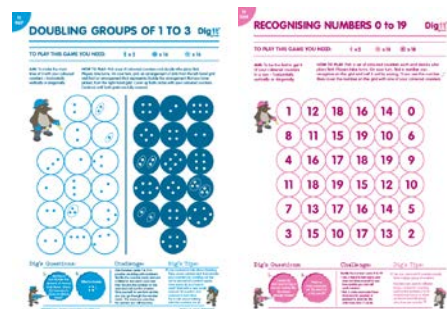
Reception Games & Activities

Downloadable PDF resource!

Helping Reception teachers make children's introduction to maths an enjoyable and fun experience.

Focusing on:

- Number recognition
- Counting & estimating
- Simple addition & subtraction
- Number bonds



Dig1t Deals - Metrics card game (age: 7+)

A card game that requires players to convert different units of measurement as well as practising children's multiplication and division skills.

Measurements include decimals and fractions!

- **Length:** Millimetres (mm), centimetres (cm) and metres (m)
- **Weight:** Kilograms (kg) and grams (g)
- **Capacity:** Millilitres (ml) and litres (l)



Free Resources from Dig1t Games (dig1t.com/game-resources)

[Free maths activity ideas](#) (Reception to Year 4)

Downloadable PDF resource!

These handy documents are packed full with ideas of games that can be played with just counters, dice and number cards.

Simple ideas played with simple resources that help to strengthen children's understanding of the foundational number concepts learned at school – and free to download and use!

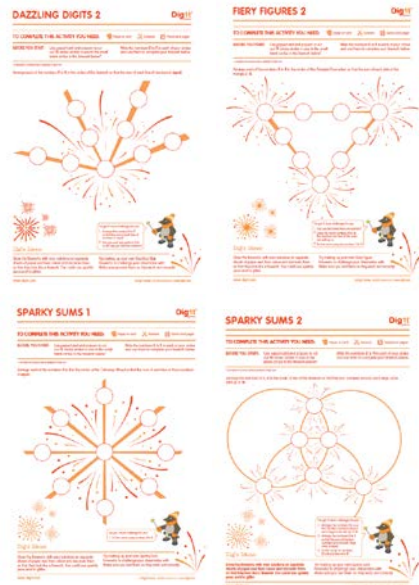


[Free Firework Activity Sheets](#)

Downloadable PDF resource!

Eight downloadable maths activities for fireworks season!

- Investigate different solutions to a series of challenges.
- Using all the operations to discover and explore number patterns
- Deepens children's understanding of numbers.
- A template of number-circles is available so that children can quickly move the numbers to solve the challenges



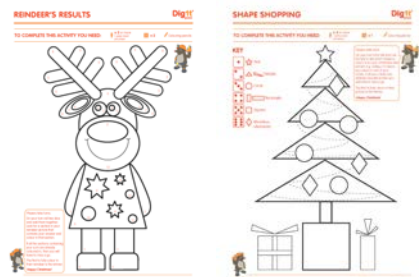
[Christmas Maths Activities](#)

Downloadable PDF resource!

The activities encourage children to use dice, number and shape skills to complete Christmas-themed pictures.

The six activities will involve:

- Recognising numbers and dice formations.
- Recognising and naming 2D shapes.
- Recognising and naming quadrilaterals, polygons and different types of triangles.
- Addition and multiplication.



[Number Cards template](#) A PDF file for printing your own 0 to 20 number cards onto A4 card.

[Number lines & Number Circles](#)

Lines: 0 to 10, 0 to 20, 0 to 5 (including $\frac{1}{2}$'s), 0 to 5 (including 0.5's), blank number lines

Circles: 0 to 9 – for use with our Firework activity sheets.

[Score sheets](#) To note down your scores as you play.