

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.”



Engaging Maths Activities & Resources, for Primary Schools



Available now

Primary School Maths Activities & Games

(Years 1 - 6)

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
- Children play **face-to-face**, playing and learning **together**
- Use in class or as home-learning exercises
- Available in year-group, key stage, and individual topic packs

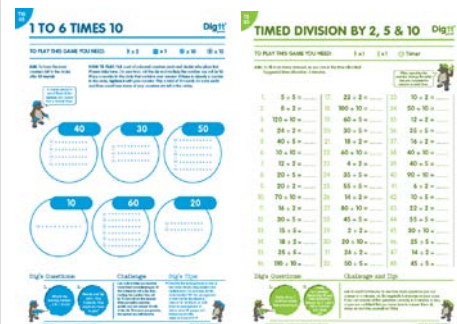


2, 5 & 10 Times Table Games, Activities & Assessments

[<downloadable pdf resource>](#)

A comprehensive and engaging system of games and assessments that steadily progresses children through these first times tables.

- Containing times-table and division exercises to help establish all-important links between multiplication and division
- Assessments and Progress Trackers are included
- Activities refer to all previous tables so knowledge is constantly refreshed



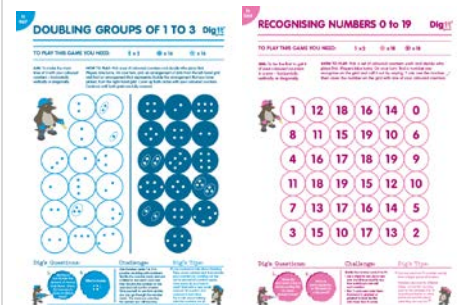
Reception Games & Activities

[<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 and practises 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)



Coming soon

All the times-tables!

The 2, 5, and 10 times table activities and assessments are available now and provide an enjoyable and engaging beginning to the times tables.

The **3-4**, **6-9**, and **11-12 times tables** will become available throughout the year.

Free Resources (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



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.

Game indexes & guides The indexes and guides included in the year-group game folders are available to download and print in A4 or A3 format.

Introducing Dig1t Games for homework A fully editable Word document introducing the games to parents/carers.

Raise funds using Dig1t Games Use Dig1t Games to encourage maths practice at home and raise funds by selling the simple resources required to play the games.