



Ideas for practising your maths skills with the Dig1t Games Resource Bag

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### Topic: Multiplication and Division

A simple bag of resources can provide an invaluable way to learn and master the early concepts in Maths. This document, and our other activity documents, provide a list of activities that will help to establish a solid understanding of these early concepts.

Try the activities regularly, even if they become easy, as repetition is important to strengthen what you've learned and daily practise is the best way to become a confident mathematician.

Don't rush through the activities - have fun playing at your own pace and make sure you are confident before moving on to more challenging versions.

We also hope our list will inspire you to think of your own activities, as there are many more to think up.

Enjoy!

The Dig1t Games team

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### The Dig1t Games Resource Bag



#### Contents

- Number cards (0 to 20)
- 40 counters (2 colours)
- 4 playing pieces
- 2 dice
- Choke warning label

## **Multiplication and Division**

1. Try to split an even number of counters into 2 equal groups by sight only, not by counting.  
Then count them to check how accurate you are.
2. Lay all the number cards out in front of you and find all the even numbers.
3. Lay all the number cards out in front of you and find all the odd numbers.
4. This is a great way to visualise your 2-times table:  
Start by arranging 4 counters into 2 groups of 2 counters and talking about the groups and how many counters there are in total.  
Then repeat this with 6 counters (3 groups of 2 counters), then 8, 10, 12 counters etc.  
Make the connection between the phrases: two groups of 2, 2 lots of 2, and 2 times 2.  
Do this again for 3 groups of 2, 4 groups of 2 and so on.  
Can you see how many counters there are in 4 groups of 2 without counting them out?  
What about 8 groups of 2?  
Keep going using more groups of 2.
5. Use dice to practise your 2 times table by rolling a die and multiplying the number you roll by 2.  
Repeat this to practise multiplying: 1, 2, 3, 4, 5, and 6, by 2.  
To practice up to  $12 \times 2$ , use two dice and work out the sum of the two numbers you roll before multiplying the answer by 2.
6. Use number cards 0 to 12 to practise your 2 times tables.  
Shuffle the cards and ask an adult to turn over one card at a time.  
Multiply the number they turn over by 2 and call out the answer.  
Time yourself completing the cards and see if you can improve on your time with more practise.
7. Share 4 counters between 2 people, how many do they get each?  
Share 6 counters between 2 people, then 8, 10, and 12 counters.  
Use the word "divide" as well as "share" when you are doing this.  
Notice how your 2 times table can help you to share/divide between 2.
8. Use even number cards from 2 to 20 to practise dividing by 2.  
Ask an adult to turn over one card at a time, you then have to divide the number by 2 and call out the answer.  
You could make new number cards for 22 and 24 to use in this game.

## **Multiplication and Division** (cont'd)...

9. Arrange 10 counters into two groups of 5 and talk about the groups and how many counters there are in total.  
Do the same for 15, 20, 25, 30 and 40 counters.  
Add to the counters with other items (like pasta or marbles) so you can arrange more multiples of 5 items into groups of 5.  
Talk about your groups and link them to the 5 times table.
10. Use a die to practise the 5 times table up to  $6 \times 5$ .  
Roll the die, multiply the number you roll by 5 and call out the answer.  
Then use two dice to practise up to  $12 \times 5$  - roll both dice, add them together and then multiply by 5.
11. Use number cards 0 to 12 to practise your 5 times table.  
Shuffle the cards and ask an adult to turn over one card at a time.  
Multiply the number they turn over by 5 and call out the answer.  
Time yourself completing the cards and see if you can improve on your time with more practise.
12. Arrange 10 counters into five equal groups.  
How many counters are there in each group?  
Repeat for 15, 20, 25, and 30 counters.  
Use the words "divide" and "share" when you are doing this.  
Notice how your 5 times table helps you to share/divide between 5.
13. Use number cards that are multiples of 5 (5, 10, 15, 20).  
Ask an adult to turn over one card at a time, you then have to divide the number by 5 and call out the answer.  
You could make number cards for 25, 30, 35 etc. to use in this game.
14. Make sure you keep practising your 2 times table even when you've moved on to the 5 times table.
15. Repeat activities 10 and 11 for the 10 times table. Try visualising your 10 times table with counters before using the dice and number cards to practise.  
Make sure you still practise your 5 and 2 times tables.
16. Repeat activities 10 and 11 for the other times tables.  
Remember to regularly practise these activities with all the times tables.
17. Make symbol cards for ( $\times$ ), ( $\div$ ), (=) to create multiplication and division sentences with your number cards.
18. Using your symbol cards and the number cards, ask an adult to create missing number sentences for you to solve.