Number Champions
1 2 3 4 5
fun + skills = confidence

Resource for Year 2 Core Curriculum

Year 2: Addition: Use partitioning to support addition

Partitioning Party

Aim of the Game

It's party time! Buy supplies for a party and use partitioning to help you find the total cost.

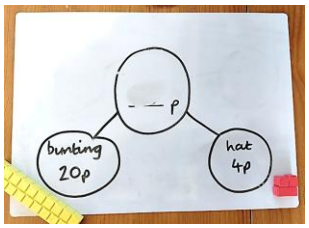
You will need

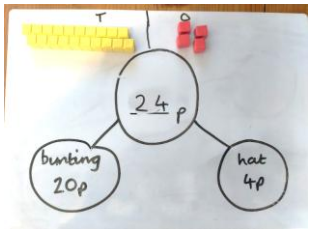
Before you play....

- Have a quick chat about any parties recently been to or coming up to switch on what they know about parties. Explain the aim of the game and read through the Party Shop menu together.

Play 1 – multiples of ten plus single digits (no exchanging)

- To begin, the child chooses 2 items and find the total cost.
- If they find the total quickly, without support – praise and ask them to show or explain how they solved it. If they can find the total of all the pairs of items with no support, then suggest buying 3 items with base 10 and part whole model to support (see example).
- If they cannot find the total mentally quickly, model using the part/whole model or place value chart with base 10 as in the examples.

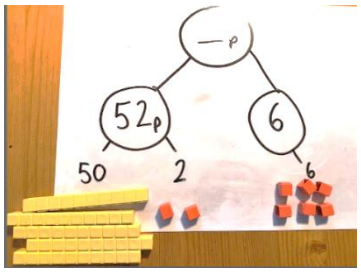




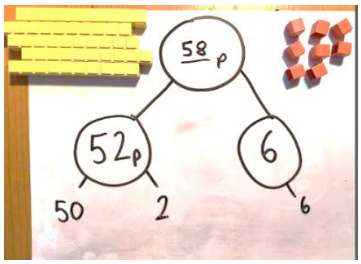
I want bunting which is 20p – that's 2 tens.
I want a hat which is 4p – that is 4 ones.

2 tens add 4 ones is equal to 24 so the total cost is 24p.

Play 2 – Double digits plus single digits (no exchanging)



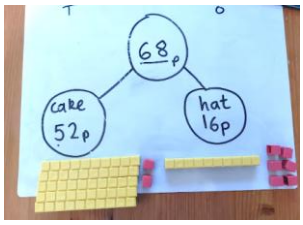
I want cake which is 52p – I can partition that into 5 tens and 2 ones.
I want a hat which is 6p –that is 6 ones.



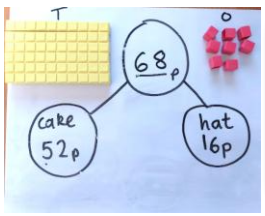
First, I add the ones. 6 ones add 2 ones is equal to 8.
Now I add the tens – there are 5 tens
Finally. I add the tens and ones to find the total.
5 tens and 8 ones are equal to 58 so the total cost is 58p.

Play 3 – double digits plus double digits (no exchanging)

Introduce double digits that aren't a multiple of ten once they are confident.



*I want cake which is 52p – **I can partition that into** 5 tens and 2 ones.*
*I want a hat which is 16p – **I can partition that into** 1 ten and 6 ones.*



***First, I add the ones**. 6 ones add 2 ones is equal to 8.*
***Now I add the tens**. 5 tens plus 1 ten equals 6 tens.*
***Finally, I add the tens and ones to find the total**.*
*6 tens and 8 ones **are equal to** 68 so **the total cost is** 68p.*

- Deepen the learning by giving a budget – what can they buy for 60p? 30p? 100p?
- They could buy more than one of each item.
- Use the blank Party Shop template to add your own prices. Print it, put it in a plastic pocket and use a drywipe marker for endless possibilities. Include a mix of multiples of 10 and single-digit numbers. If they are not ready to add numbers that go over 9 don't put any single or tens numbers that add to 10 or more.
- If parties don't interest the child, then the shop can sell something that does – there is a blank template you could use.

Party Shop

bunting 20p

ballons 10p

party hat 4p

cake 50p

blower 3p

party bag 2p

Shop

bunting __p

balloons __p

hat __p

cake __p

blower __p

party bag __p

Shop

__p	__p	__p
__p	__p	__p