Family Learning Numeracy Workshops

P1-3- Concrete, Pictoral, Abstract approach + - x ÷ skills

P4-5- exploding dots + and x

P6-7- rich tasks and problem solving

• Here are some examples of the activities that we did during the Family Learning Session. Feel free to try some of these.

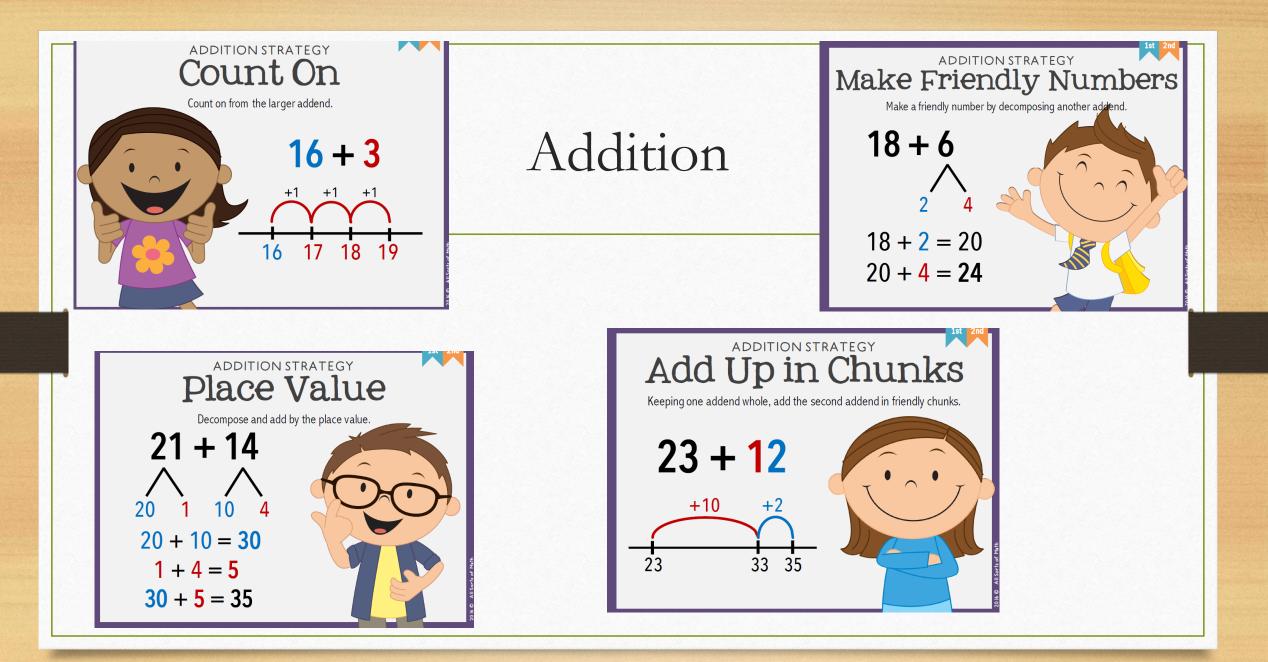
• A huge thank you to all of the people who attended this event and those who gave us feedback.

Primary 1-3 Session

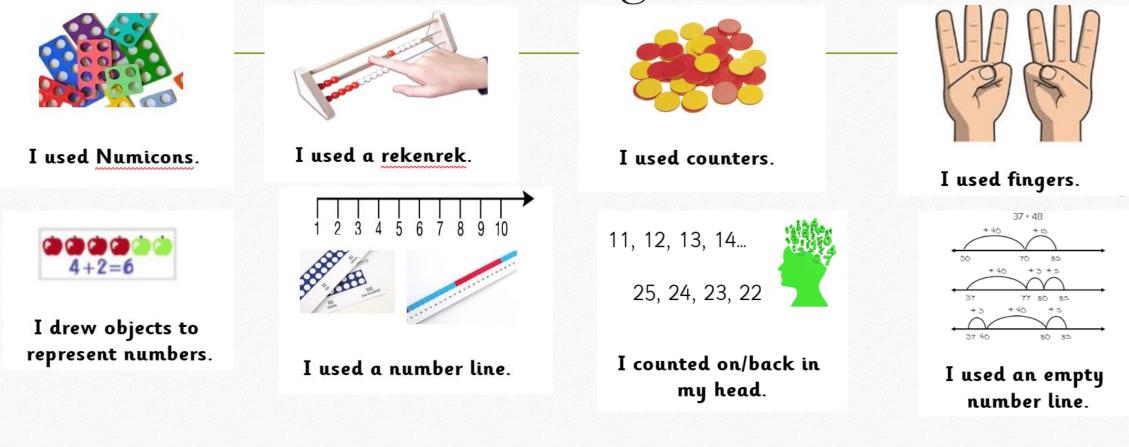
• Tuff trays







Our addition strategies and tools

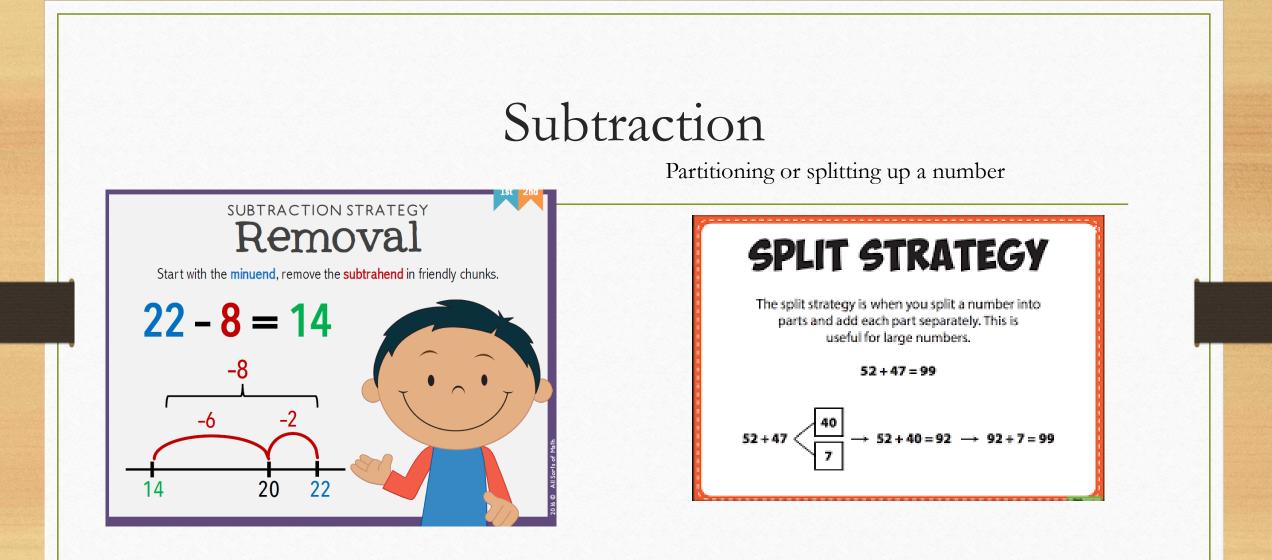


Addition Activities

Activity 1- Put out some red counters then use the covers to cover them over. Put out some yellow counters. How many are there altogether?



Challenge- make this activity harder by covering both groups of counters. How many are there?



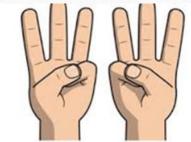
Our subtraction strategies and tools



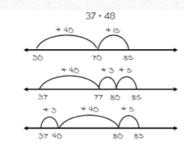
I used Numicons.



I used counters.



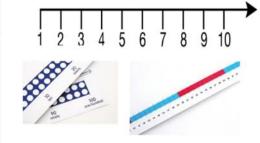
I used fingers.



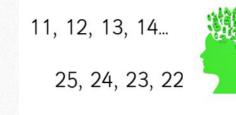
I used an empty number line.



I drew objects to represent numbers.



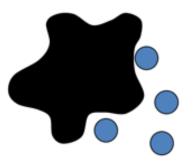
I used a number line.



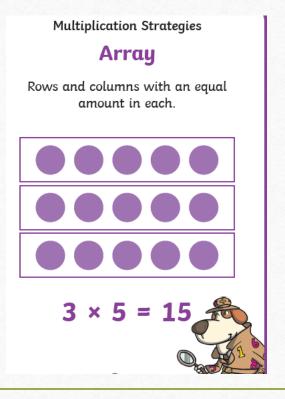
I counted on/back in my head.

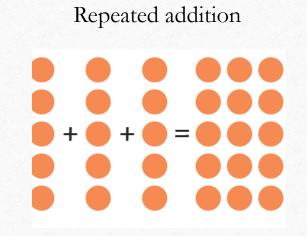
Subtraction Activities

Activity 1- Put out some counters. Splat! Place a splat over the top of some. How many are left? How many are under the splat? Try to write the sum.



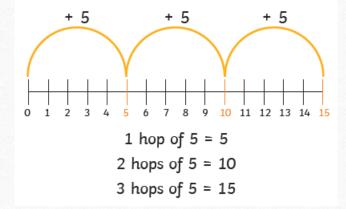
Multiplication

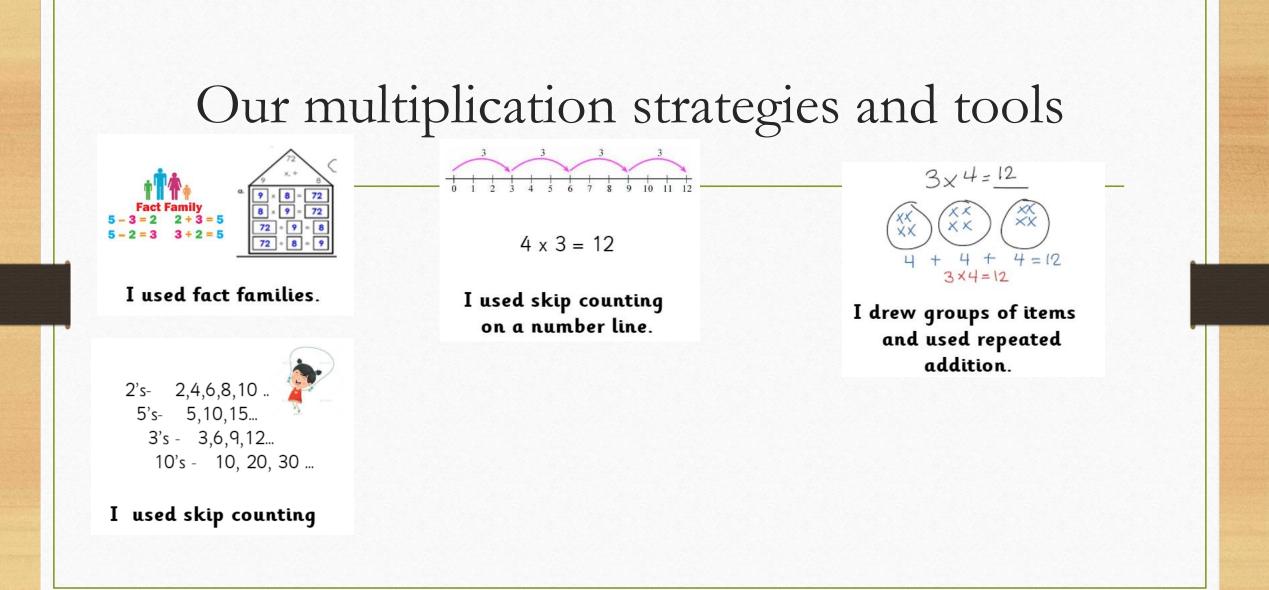




5+5+5 =15

Skip counting





Multiplication Activities

Activity 1- Practise skip counting

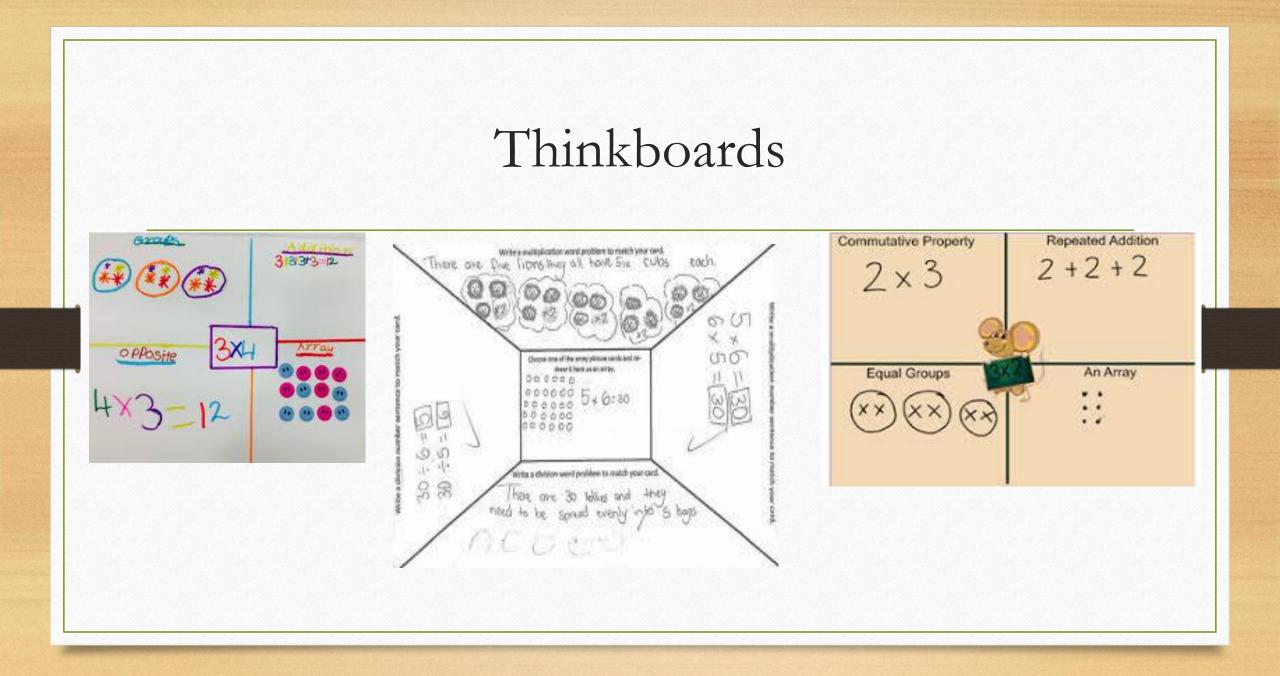
2,4,6,8...... 5,10,15,20..... 10,20,30,40.....

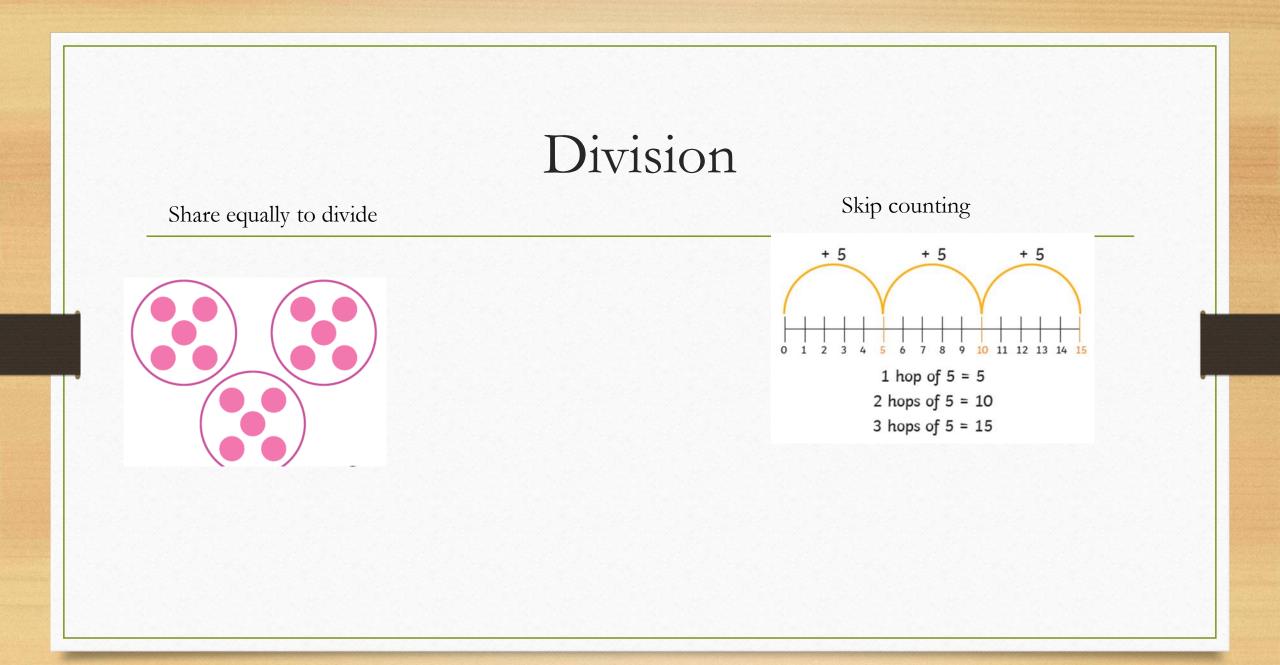
Activity 3- Multiplication Thinkboards. Think of different ways to represent your multiplication



Activity 4- Write a multiplication sum then draw an array to represent the sum.







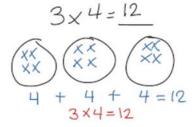
Our division strategies and tools



I used fact families.



I used skip counting



I drew groups of items and used repeated addition.



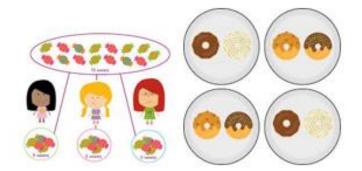
I shared objects into equal groups.

 $4 \times 3 = 12$

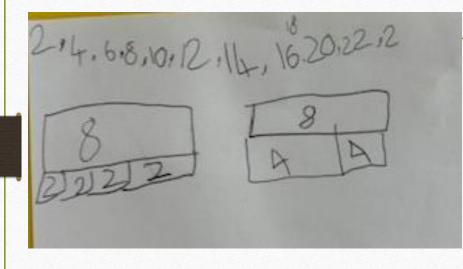
I used skip counting on a number line.

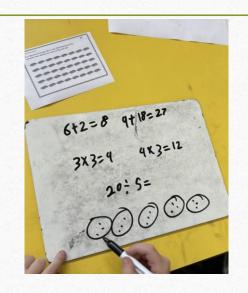
Division Activities

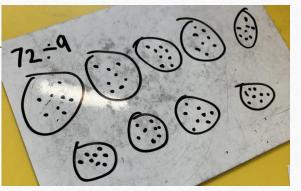
Activity 1- Put out some cakes then try to share them equally between the plates. Try to write the division sum to match.



Pictures of family learning





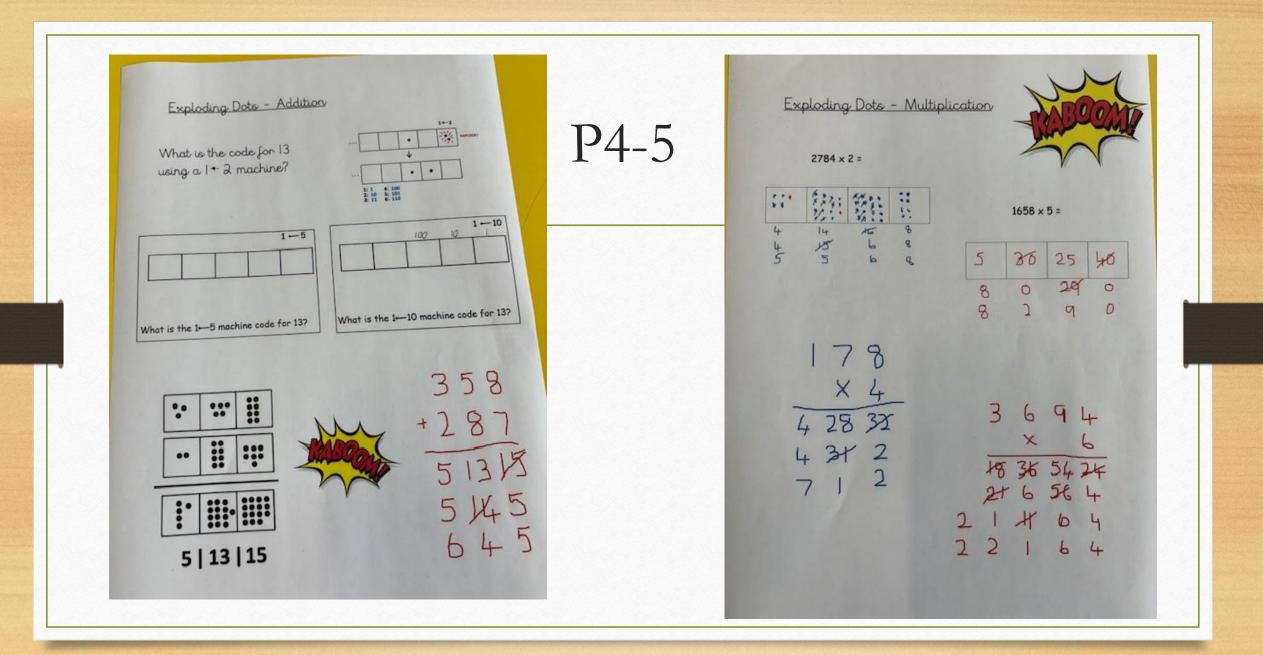












Pictures of family learning 1:001 10:010 2:00211:011 12:012 13:012 th h t 1:009 +0 2 0 - 0001 -0010 208 0011

P6-7 Activities

Prime Climb - Task | Name

Discussi What do you see? What do you wonder?

Prime Climb Complete the Prime Chart by continuing the colour coding-

0000000000

(65)

75

85

(95)

63

73

83

(93-

(61)

(71)

81

(-91)-

62-

72

82

(92)

(64)

74

84

(94)

(66)

76

(86)

(96)

(67)

 (\overline{m})

(87)

97

(68)

(78)

(88)

98

(69)

(79)

(89)

(70)

BO

90

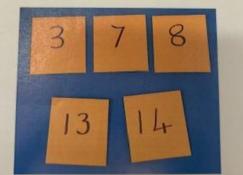
001) (00)

Sealed Solutions

Here is a set of ten cards each showing one of the digite from 0 to 9:



The ten cards are divided up between five envelopes so that there are two cards in each envelope. The sum of the two numbers inside it is written on each envelope:



Using all ten number cards (only once) what numbers could be inside each envelope?

P6-7 Activities



Fifteen Cards

I have fifteen cards numbered 1-15.

I put down seven of them on the table in a row.

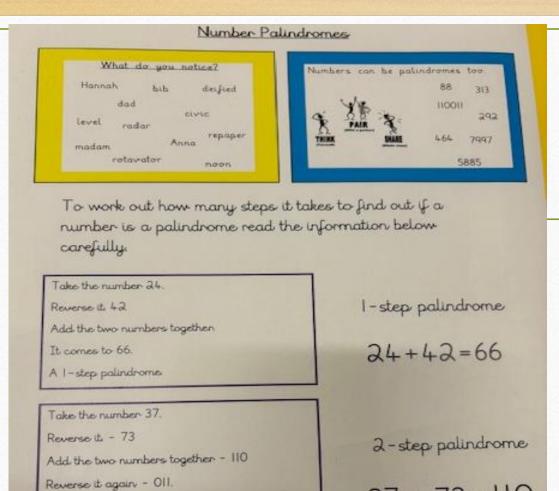


The numbers on the first two cards add to 15. The numbers on the second and third cards add to 20. The numbers on the third and fourth cards add to 23. The numbers on the fourth and fifth cards add to 16. The numbers on the fifth and sixth cards add to 18. The numbers on the sixth and seventh cards add to 21.

What are my cards?

Can you find any other solutions?

How do you know you've found all the different solutions?



Add the two numbers together

It comes to 121.

A 2-step palindrome

It was added twice before it was a palindrome.

37 + 73 = 110 110 + 011 = 121

| | | | Nun | nber Pa | alindro | mes | | | | | |
|------------------|--|-------------------------|-------|---------|--|---------------------------|------------------|------|----|----|----|
| colour colour | palindrom 1-step pali 2-step pal 3-step pal | indromes l lindromes | green | | colour 4-s colour 5-s colour 6-s Is that ev | tep paliri step paliri | dromes dromes | pink | | | |
| I | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 10 | |
| н | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 1 | 9 | 20 | |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 10 | 29 | 30 | |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | | 39 | 4 | 0 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 4.8 | 3 | 49 | 0. | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 5 | 8 59 | | | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 6 | 8 | 60 | 1 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | - | 78 | 7 | 9 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 8 | 7 | 88 | 89 | | 90 |
| 21 | 92 | 93 | 94 | 95 | 96 | 9 | 7 | 98 | 99 | | 10 |

Pictures of family learning







Feedback

I like to see all of the tools and strategies the children have available to them. It helps when working on maths at home.

I enjoyed the challenge of the tasks and seeing my daughters delight in teaching me how to do something she knows.

Spending time with my child being shown their learning and them teaching me

Thank you for arranging this event, it's great to be able to come in to school and share some of my child's learning

Was good to have exploding dots explained as not something iv used

Learning new techniques in numeracy being taught by my child which will in turn help when they need support with their homework etc

Website Links

- Sumdog- <u>https://play.sumdog.com/domain_choice</u>
- Topmarks- <u>https://www.topmarks.co.uk/maths-games/5-7-years/counting</u>
- MathsBot- https://mathsbot.com/manipulativeMenu
- Love Maths- <u>https://www.lovemaths.me/games</u>
- Maths Frame- https://mathsframe.co.uk/en/resources/category/22/mostpopular