

# MATH'S PARENT WORKSHOP

## MAY 2023



# FOUNDATION YEAR

Really key is number formation. Like with handwriting, its important that Number formation is correct. Classic mistake is 5 looking like an S.

Encourage your child to count objects (concrete resources). Draw pictures to help them work at the answers.

Children being able to chant in 2s, 5s and 10s.

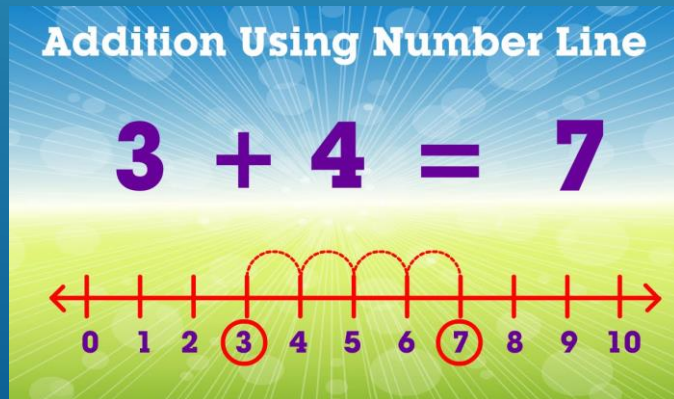
Start to introduce counting objects in 2s if your child is ready. Using objects at home to add and take away.

- Be confident with number bonds to 5, then 10.
- Building numbers beyond 10 using practical resources.
- Recall double facts.
- Count, read and order numbers from 0 to 20
- Explore how quantities can be distributed equally.
- Explore evens and odds.
- Explore numerical patterns and 'subitise' – recognise amounts without counting



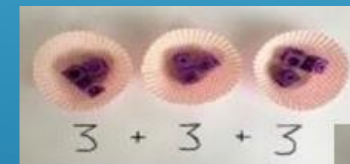
# YEAR 1

- We want children to be confidence with their number bonds to 10 and 20
- e.g.  $9 + \underline{\quad} = 10$        $\underline{\quad} + 16 = 20$
- Making doubles
- We develop children's ability to count in 2s, 5s and 10s towards the end of Year 1.
- Understanding of Fractions such as  $\frac{1}{2}$  and  $\frac{1}{4}$  start to get developed. (Shapes & Quantities)
- Encourage your child to count objects (concrete resources/manipulatives). Draw pictures to help them work at the answers.
- Counting in 1s to 100 forwards and backwards also really important and ensuring children recognise their numbers.
- Telling the time to hour and half-hour.



Elishah has 4 apples and I give her 3 more apples.  
How many apples does Elishah have altogether?

A number line from 1 to 10 and four red apples.



# YEAR 2

As a precursor for times tables, we develop the children's knowledge of counting by using arrays. Counting in 2s, 5s and 10s would be our first aim. (Repeated addition moving to multiplication)

Bonds to 100 (tens) e.g.  $60 + ? = 100$

Subtract two 2-digit numbers

Focus on what a fraction is and use fractions of shapes to show  $\frac{1}{2}$  is equal to  $\frac{2}{4}$

$$93 - 76 =$$

$25 + 47$

$20 + 5$        $40 + 7$

$20 + 40 = 60$

$5 + 7 = 12$

$60 + 12 = 72$

76      80      90      93

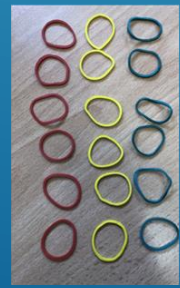
+4      +10      +3

'counting on' to find 'difference'

Use a number line to count on to next ten and then the rest.

3 lots of 2 = 6

2 lots of 3 = 6





# YEAR 3

## Mass and capacity

- Measure capacity and volume in millilitres and litres
- Compare capacity and volume
- Add and subtract capacity and volume

Money- Adding & Subtracting money and also finding change.

To recall and use multiplication facts for the 3, 4 and 8 times tables

Compare and order numbers up to 1000

Read and write numbers up to 1000 in numerals and in words

$$78 + 46 = 124$$

$$70 + 40 = 110$$

$$110 + 14 = 124$$

**Model using Dienes or Numicon**

T	O

Add together the ones first, then the tens.

	Tens	Units
45		
34		
	7	9

Move to using place value counters

	Tens	Units
21		
42		
63		

Calculations

$$\begin{array}{r} 21 + 42 = \\ + 21 \\ \hline 63 \end{array}$$

Tens	Units

Calculations

$$\begin{array}{r} 54 \\ - 22 \\ \hline 32 \end{array}$$

	327	
x	4	
	1308	

This may lead to a compact method.

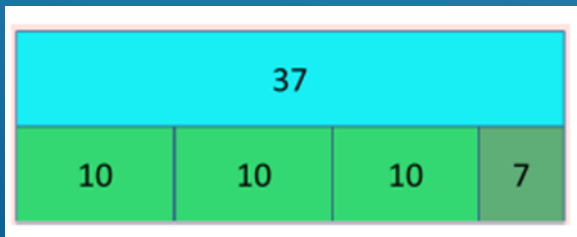
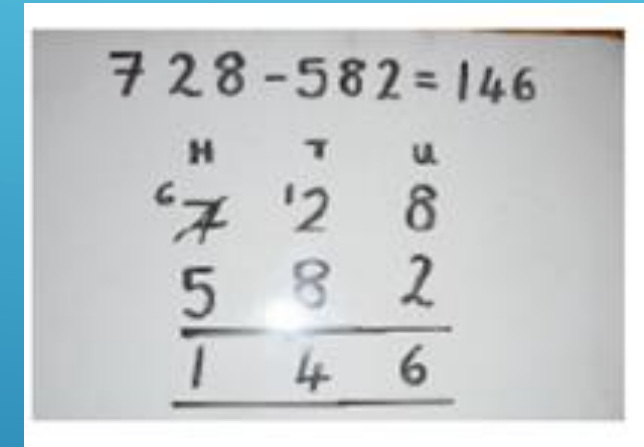
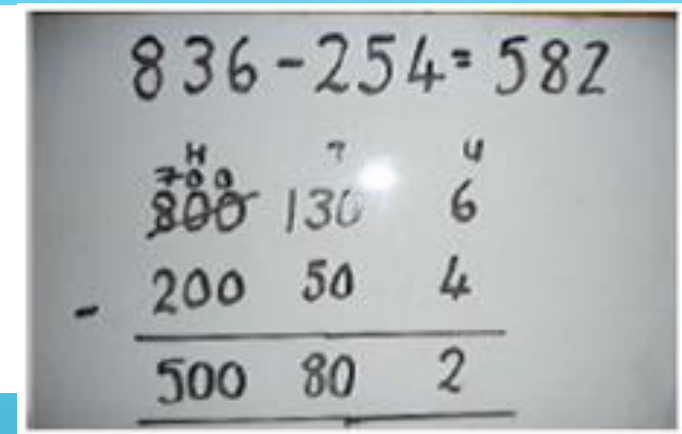
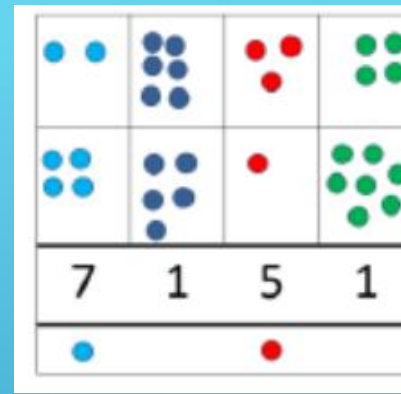
	327	
x	4	
	1308	

# YEAR 3 & 4

Children start to develop what we call formal methods to solve calculations.

Times tables/multiplication fact knowledge is also a key focus.

Year 4 each June will sit an online Multiplication check to assess their knowledge. As you can imagine as the math's calculations get harder there is more to think about, we want the children to be as fluent as possible with their math's knowledge.



Bar models used for Multiplication and division.



# YEARS 5 & 6

To be able to use their math's knowledge to solve real life problems e.g. bus time tables, using ratio in baking, being able to solve complex money problems with confidence.

Times tables are well embedded so that children are secondary school ready- they can tackle short and long division with confidence.

Solving problems with fractions, decimals and percentages are a huge part of the curriculum.

London-Manchester & Liverpool via Stoke-on-Trent or Crewe  
 Extract from Winter 2012-2013 Virgin Trains timetable  
 All direct Virgin Trains services are highlighted by the route-coloured background

Special Services	MO	TU	WE	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
London Euston	0517	0617	0616	0655	0707	0726	0735	0840	0850	0926	0937	0939	0944	1000
Manchester Piccadilly	0526	0626	0625	0707	0720	0729	0834	0844	0920	0931	0933	0938	0944	1000
Manchester Piccadilly	0510	0610	0609	0691	0704	0713	0818	0828	0904	0915	0917	0922	0928	0954
Liverpool Lime Street	0524	0624	0623	0705	0718	0727	0832	0842	0918	0929	0931	0936	0942	1008
Manchester Piccadilly	0533	0633	0632	0714	0727	0736	0841	0851	0927	0938	0940	0945	0951	1017
Manchester Piccadilly	0542	0642	0641	0724	0737	0746	0851	0901	0937	0948	0950	0955	1001	1027
Manchester Piccadilly	0551	0651	0650	0733	0746	0755	0900	0910	0946	0957	0959	1004	1010	1036
Manchester Piccadilly	0600	0700	0699	0782	0795	0804	0909	0919	0955	1006	1008	1013	1019	1045
Manchester Piccadilly	0609	0709	0708	0791	0804	0813	0918	0928	1004	1015	1017	1022	1028	1054
Manchester Piccadilly	0618	0718	0717	0800	0813	0822	0927	0937	1013	1024	1026	1031	1037	1103
Manchester Piccadilly	0627	0727	0726	0809	0822	0831	0936	0946	1022	1033	1035	1040	1046	1112
Manchester Piccadilly	0636	0736	0735	0818	0831	0840	0945	0955	1031	1042	1044	1049	1055	1121
Manchester Piccadilly	0645	0745	0744	0827	0840	0849	0954	1004	1040	1051	1053	1058	1104	1130
Manchester Piccadilly	0654	0754	0753	0836	0849	0858	1003	1013	1049	1100	1102	1107	1113	1139
Manchester Piccadilly	0703	0803	0802	0845	0858	0907	1012	1022	1058	1109	1111	1116	1122	1148
Manchester Piccadilly	0712	0812	0811	0854	0907	0916	1021	1031	1107	1118	1120	1125	1131	1207
Manchester Piccadilly	0721	0821	0820	0903	0916	0925	1030	1040	1116	1127	1129	1134	1140	1216
Manchester Piccadilly	0730	0830	0829	0912	0925	0934	1039	1049	1125	1136	1138	1143	1149	1225
Manchester Piccadilly	0739	0839	0838	0921	0934	0943	1048	1058	1134	1145	1147	1152	1158	1234
Manchester Piccadilly	0748	0848	0847	0930	0943	0952	1057	1107	1143	1154	1156	1201	1207	1233
Manchester Piccadilly	0757	0857	0896	0939	0952	1001	1106	1116	1152	1203	1205	1210	1216	1242
Manchester Piccadilly	0806	0906	0905	0948	1001	1010	1115	1125	1201	1212	1214	1219	1225	1251
Manchester Piccadilly	0815	0915	0914	0957	1010	1019	1124	1134	1210	1221	1223	1228	1234	1300
Manchester Piccadilly	0824	0924	0923	1006	1019	1028	1133	1143	1219	1230	1232	1237	1243	1309
Manchester Piccadilly	0833	0933	0932	1015	1028	1037	1142	1152	1218	1229	1231	1236	1242	1308
Manchester Piccadilly	0842	0942	0941	1024	1037	1046	1151	1201	1227	1238	1240	1245	1251	1307
Manchester Piccadilly	0851	0951	0950	1033	1046	1055	1200	1210	1236	1247	1249	1254	1300	1306
Manchester Piccadilly	0900	1000	0999	1042	1055	1104	1209	1219	1245	1256	1258	1303	1309	1315
Manchester Piccadilly	0909	1009	1008	1051	1104	1113	1218	1228	1254	1305	1307	1312	1318	1324
Manchester Piccadilly	0918	1018	1017	1100	1113	1122	1227	1237	1303	1314	1316	1321	1327	1333
Manchester Piccadilly	0927	1027	1026	1109	1122	1131	1236	1246	1312	1323	1325	1330	1336	1342
Manchester Piccadilly	0936	1036	1035	1118	1131	1140	1245	1255	1321	1332	1334	1339	1345	1351
Manchester Piccadilly	0945	1045	1044	1127	1140	1149	1254	1304	1330	1341	1343	1348	1354	1400
Manchester Piccadilly	0954	1054	1053	1136	1149	1158	1303	1313	1339	1350	1352	1357	1403	1409
Manchester Piccadilly	1003	1103	1102	1145	1158	1207	1312	1322	1348	1359	1401	1406	1412	1418
Manchester Piccadilly	1012	1112	1111	1154	1207	1216	1321	1331	1407	1418	1420	1425	1431	1437
Manchester Piccadilly	1021	1121	1120	1203	1216	1225	1330	1340	1416	1427	1429	1434	1440	1446
Manchester Piccadilly	1030	1130	1129	1212	1225	1234	1339	1349	1425	1436	1438	1443	1449	1455
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Manchester Piccadilly	1048	1148	1147	1231	1244	1253	1402	1412	1448	1459	1501	1506	1512	1518
Manchester Piccadilly	1057	1157	1156	1240	1253	1302	1411	1421	1457	1508	1510	1515	1521	1527
Manchester Piccadilly	1106	1206	1205	1249	1302	1311	1420	1430	1516	1527	1529	1534	1540	1546
Manchester Piccadilly	1115	1215	1214	1308	1321	1330	1439	1449	1525	1536	1538	1543	1549	1555
Manchester Piccadilly	1124	1224	1223	1312	1325	1334	1443	1453	1529	1540	1542	1547	1553	1609
Manchester Piccadilly	1133	1233	1232	1316	1329	1338	1445	1455	1531	1542	1544	1549	1555	1611
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Manchester Piccadilly	1151	1251	1250	1334	1347	1356	1500	1510	1546	1557	1559	1604	1610	1616
Manchester Piccadilly	1200	1300	1299	1343	1356	1405	1509	1519	1555	1606	1608	1613	1619	1625
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Manchester Piccadilly	1245	1345	1344	1418	1431	1440	1544	1554	1625	1636	1638	1643	1649	1655
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Manchester Piccadilly	1303	1403	1402	1431	1444	1453	1607	1617	1643	1654	1656	1701	1707	1713
Manchester Piccadilly	1312	1412	1411	1440	1453	1502	1616	1626	1652	1703	1705	1710	1716	1722
Manchester Piccadilly	1321	1421	1420	1449	1462	1471	1620	1630	1706	1717	1719	1724	1730	1736
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Manchester Piccadilly	1348	1448	1447	1516	1529	1538	1642	1652	1718	1729	1731	1736	1742	1748
Manchester Piccadilly	1357	1457	1456	1525	1538	1547	1651	1701	1722	1733	1735	1740	1746	1752
Manchester Piccadilly	1406	1506	1505	1534	1547	1556	1705	1715	1731	1742	1744	1749	1755	1801
Manchester Piccadilly	1415	1515	1514	1543	1556	1605	1714	1724	1730	1741	1743	1748	1754	1800
Manchester Piccadilly	1424	1524	1523	1552	1605	1614	1723	1733	1739	1750	1752	1757	1803	1809
Manchester Piccadilly	1433	1533	1532	1601	1614	1623	1732	1742	1748	1759	1801	1806	1812	1818
Manchester Piccadilly	1442	1542	1541	1610	1623	1632	1741	1751	1757	1808	1810	1815	1821	1827
Manchester Piccadilly	1451	1551	1550	1619	1632	1641	1750	1800	1806	1817	1819	1824	1830	1836
Manchester Piccadilly	1500	1600	1599	1628	1641	1650	1804	1814	1820	1831	1833	1838	1844	1850
Manchester Piccadilly	1509	1609	1608	1637	1650	1659	1813	1823	1829	1840	1842	1847	1853	1909
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