Dilton Marsh Church of England Primary School



Some Year 4 Key Skills To Help Your Child With Maths

Introduction

At Dilton Marsh Church of England Primary School we follow the new mathematics curriculum. In addition to knowing and applying basic mathematics skills, students are required to reason, think independently, solve problems using different strategies, and effectively communicate their methods. Parents help at home is essential in helping children develop and strengthen these skills.

Here are some suggestions for parents helping at home:

- Let your children know you believe they can be successful in math.
- Encourage and support risk taking and celebrate perseverance.
- Encourage your children to solve problems with you.
- Help them identify different methods or strategies to use in finding solutions and resist the temptation to provide the answer or method. There is usually more than one way to solve a problem, and simpler strategies are often effective.
- Provide opportunities for your children to explain and justify their thinking.
- Connect mathematics to real life experiences. Emphasising the mathematics around us helps to make mathematics education relevant.
- Ask good questions of your children about their homework and be good listeners when your children respond.
- Encourage children to estimate answers before working out the answer.

Good questions, and equally important, good listening can help children make sense of mathematics, build their confidence, and encourage mathematical thinking and communication. A good question opens up a problem and supports different ways of thinking about it. Some questions to try while helping a child might include:

- What do you already know about this?
- What do you need to find out?
- How might you begin?
- How can you organise your information?
- Can you draw a picture to explain your thinking?
- Are there other possibilities?
- What would happen if ...?
- What do you need to do next?

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<u>Step 1</u>

- Four-digit place value
- Counting from 0 in multiples of 6,7,9 and 25
- Writing simple fractions of amounts
- Recognise simple equivalent fractions
- Column addition and subtraction

<u>Step 2</u>

- Tell and write the time from 12-hour and 24-hour clocks
- Dividing numbers or quantities by 10
- Using Roman numerals from I to XII

Step 3

- Counting up and down in tenths
- Money Decimals
- Converting between units of measure
- Negative Numbers
- Timestables

<u>Step 1</u>

Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, ones):

Place Value Chart for 4 digit Numbers									
Thousands	Hundreds	Tens	Ones						
1	4	8	9						

Remember each time you move column the number becomes 10 times bigger.

Count from 0 in multiples of 6, 7, 9 and 25:

Children in Year Four need to be confident to count on in groups of 6, 7, 9 and 25. Use games, counting sticks, hoops or anything else you can think of to help them learn this skill.



Write simple fractions for example, 1/2 of 6 = 3:



Have even numbers of objects.

Discuss the idea you share them between 2 when halving.

The children can repeat activity with any even number

Key words: Half, quarter, share, fractions

Recognise the equivalence of 2/4 and 1/2:



Use cakes/pizza's. Cut them into halves.

Then into quarters. Look at how 2/4 is equal to $\frac{1}{2}$ in size.

You could look at sharing counters into 2, and then into 4.

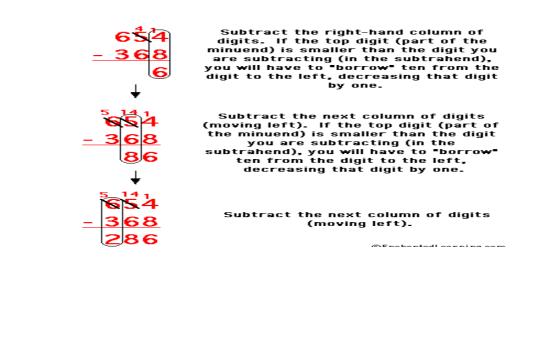
How many of the piles (when split into 4 groups) have the same number of counters as

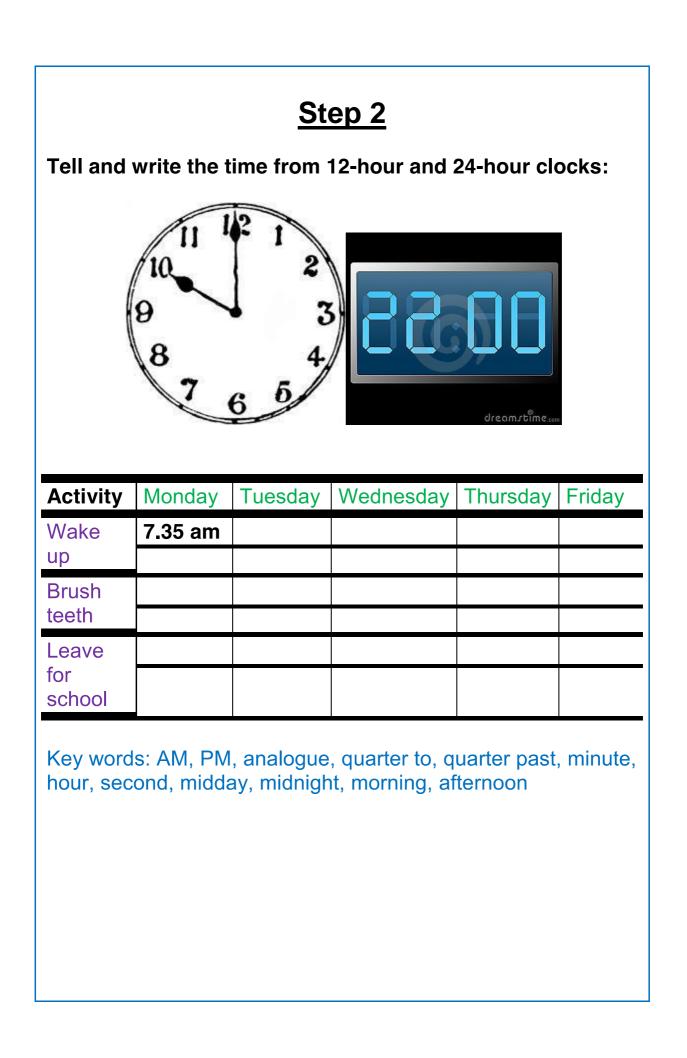
Key words: equivalence, equal, share

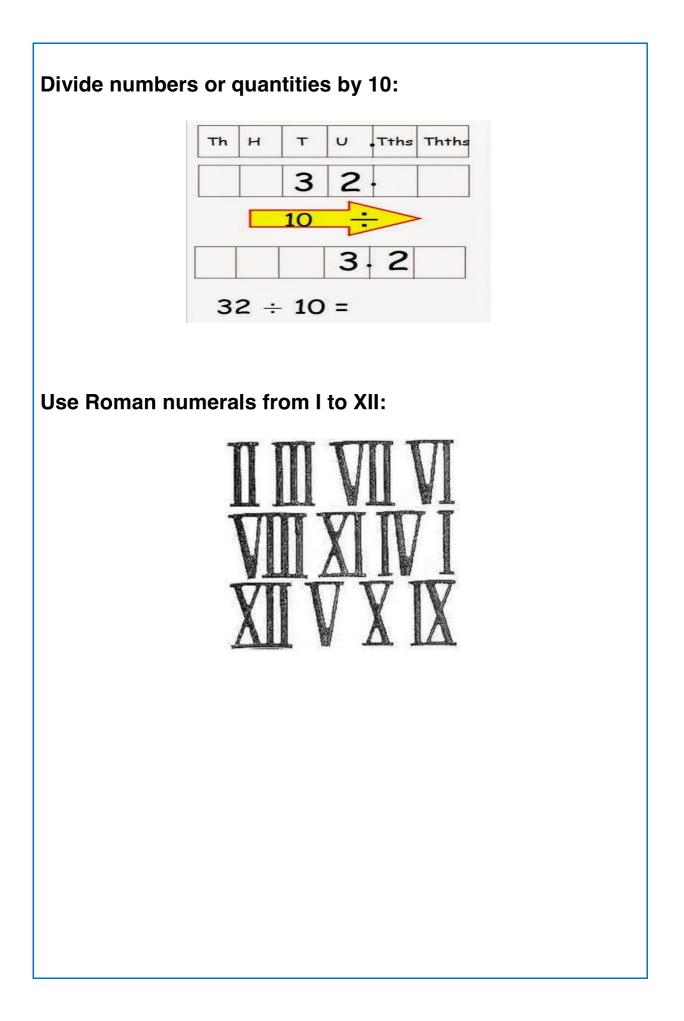
Addition: Children must be able to add using the column of digits. If the sum is bigger than ten, then carry that digit to the next column of the left - that digit will be added to the next column. Add the next column of digits (moving left). Make sure to add the carry (if there was one). Add the next column of digits (moving left). Make sure to add the carry (if there was one).

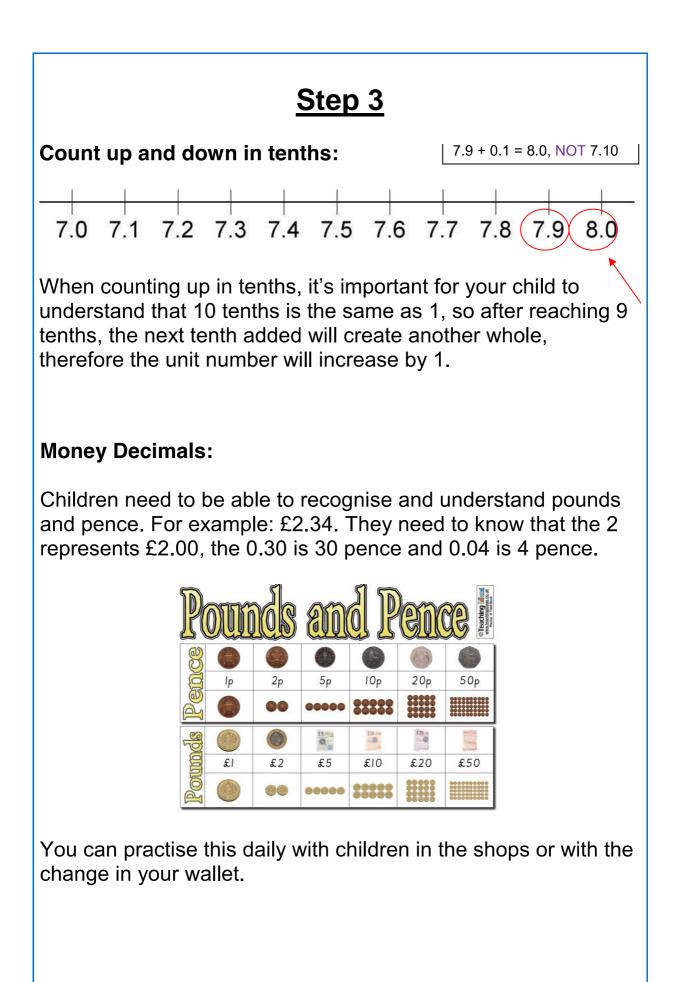
Subtraction:

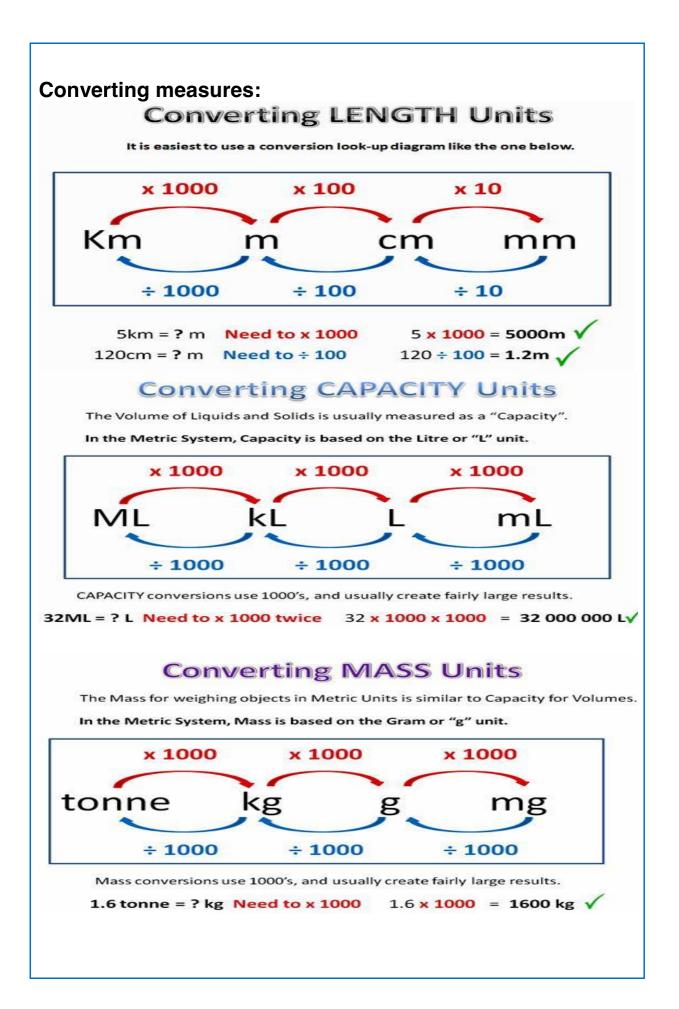
Using the same column method children should be able to subtract to two given numbers.





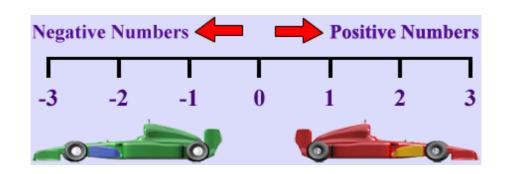






Negative Numbers:

Children need to be able to count through zero into negative numbers. One way you can do this is to ask children to calculate temperature increases and decreases.



Times tables:

By the end of Year four children should know all the multiplication facts up to 12×12 .

12	12	24	36	48	60	72	84	96	108	120	132	144
11		22	33	44	55	66	77	88	99	110	121	132
10	10	20	30	40	50	60	70	80	90	100	110	120
9	9	18	27	36	45	54	63	72	81	90	99	108
8	8	16	24	32	40	48	56	64	72	80	88	96
	7	14	21	28	35	42	49	56	63	70	77	84
6	6	12	18	24	30	36	42	48	54	60	66	72
5	5	10	15	20	25	30	35	40	45	50	55	60
	4	8	12	16	20	24	28	32	36	40	44	48
3	3	6	9	12	15	18	21	24	27	30	33	
2	2	4	6	8	10	12	14	16	18	20		24
		2	3	4	5	6		8	9			12
X	1	2	3	4	5	6	7	8	9	10	11	12