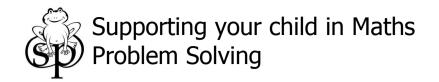


<u>Supporting your child in</u> <u>Maths</u>



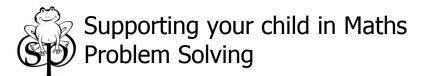
Problem Solving

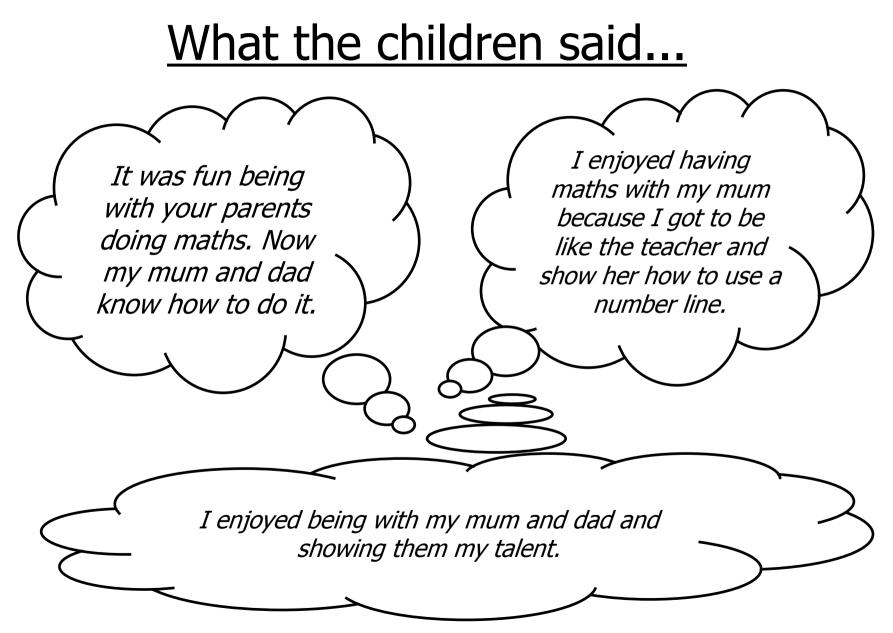


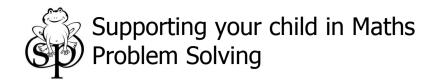
The aims of this morning:

- To share some strategies encouraged in school
- To explore skills needed for problem solving

To suggest activities that you can use to support your children at home in a way that encourages enthusiasm for the subject.

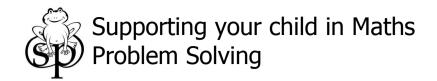






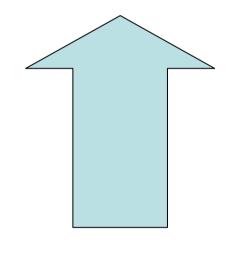
Why meet today?

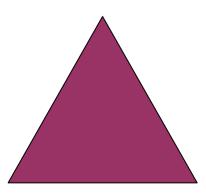
- Last year we shared calculation policy which we are still embedding.
- This allows children to have a default method to support their problem solving.

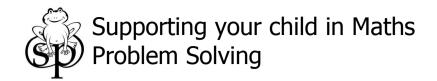


Which is the odd one out? Why?



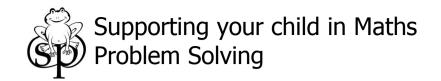






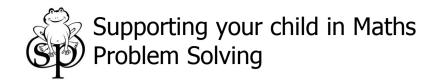
Which is the odd one out? Why?

9 55 14 171

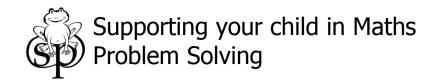




SPECIAL OFFER! 4 TIN MULTIPACK ONLY £2.50.

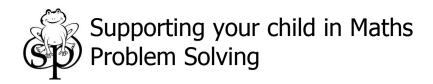


leadline rate	Payment per month	Total charge for credit	Total amount repayable			
	Representative example: If you borrow £10,000 over 3 years at a Representative APR of 5.1% fixed and an annual interest rate of 5.1% you would pay:					
5.1%	Payment per month £299.64	Total charge for credit £787	Total amount you repay £10,787			
	For loans of £7,500 - £15,000.					
	Customers can apply to take a 2 month payment break at the start of their loan. Rates for Nectar card holders only. Winner of Moneysupermarket.com Supers award for Best Loan Provider.					
		le: If you borrow £10,000 5.1% fixed and an annua				
	you would pay:					

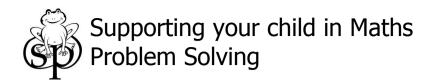


"Too often pupils are expected to remember methods, rules and facts without grasping the underpinning concepts, making connections with earlier learning and making sense of the mathematics so that they can use it independently"

Ofsted – Understanding the score report 2008

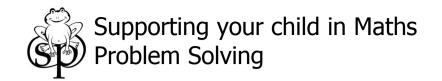


- Ability to generalise
- Independence and perseverance
- Capacity to learn and understand new ideas and ways of working quickly
- Effective communication skills
- Ability to argue and reason
- Creativity and originality

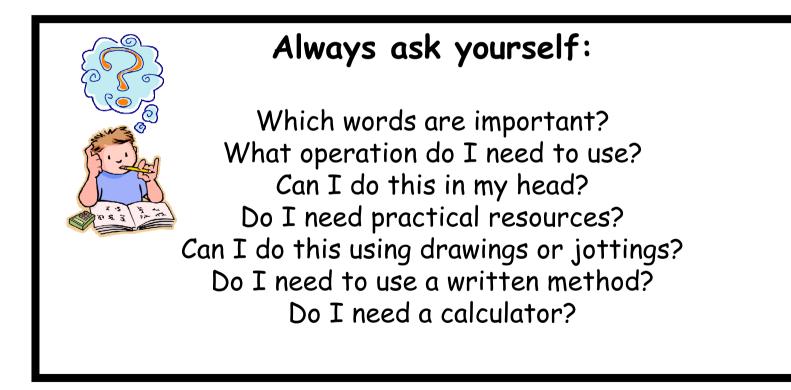


Types of problem

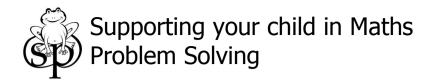
- Word (story) problems
- Finding all possibilities
- Logic Problems
- Finding rules and describing patterns



Strategies that might be seen in School.



It is called *problem* solving for a reason!



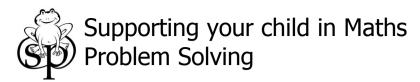
<u>Skills</u>

<u>Moving between 'real world' and</u> <u>the 'mathematical world.'</u>

How much will seven oranges cost if four oranges cost £1?

100 ÷ 4 = 25 25 X 7=175

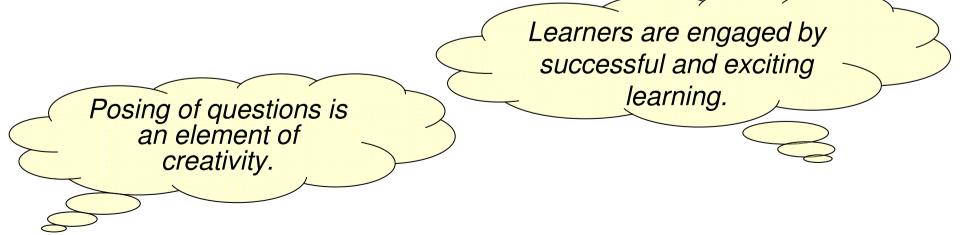
175= 175p or £1.75.

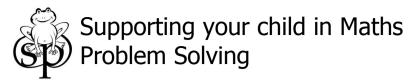




Skills

- Asking questions
- Answering questions
 - Sharing findings
- Finding all possibilities- working systematically

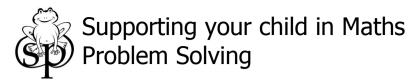




<u>Skills</u>

Reasoning

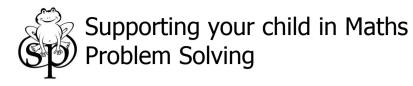
- Talk- describe and explain what they see
- Record their thinking and reasoning- pictures, doodles, numbers, objects, pictures, shapes etc.
 - What *is* the answer?
 - What *might* be the answer?
- Make comparisons- what is the same what is different?



<u>Skills</u>

Communicating

- Record work, share working out and strategies
- Discuss formal and informal strategies
- Use mathematical language- add, total, addition etc.



Football Tables < 🗺 🖬 🖬																			
Sh	ow m	e:	Premier League	<u>~</u> c	REuro	pea	n & I	ntern	ationa	i 🖌	IJP	'DA'I	ΓE					Win - Draw - Loss -	
Barclays Premier League Table																			
	Posit	iion	Team	P Ho	me W	D	L	F	А	Away W	ı	D	L	F	А	GD	Pts	Last 10 games	
>	1	_	Man Utd	28	13	0	1	38	15	1	0	2	2	30	16	37	71		Report
>	2	-	Man City	28	10	3	1	31	11	7		5	2	20	13	27	59		Report
	3	-	Tottenham	28	8	4	2	22	14	8		2	4	27	19	16	54		Repor
	4	_	Chelsea	28	8	4	2	31	12	7		3	4	25	18	28	52		Repor
,	5	-	Arsenal	28	8	3	3	35	19	5		5	4	18	13	21	47		Repor
,	6	-	Everton	28	7	6	1	25	17	4		6	4	19	18	9	45		Repor
ŀ	7	-	Liverpool	28	7	3	4	27	12	4		6	4	26	22	19	42		Repor
ŀ	8	-	Swansea	28	6	6	2	27	19	4		4	6	12	15	5	40		Repor
Þ	9	-	West Brom	28	8	2	4	21	13	4		2	8	17	24	1	40		Repor
Þ	10	-	Fulham	28	6	3	5	22	17	2		6	6	17	27	-5	33		Repor
Þ	11	-	Stoke	28	6	6	2	18	15	1		6	7	8	18	-7	33		Repor
Þ	12	-	West Ham	28	6	4	4	23	17	3		2	9	9	24	-9	33		Repor
ŀ	13	-	Norwich	28	6	5	3	16	15	1		6	7	11	30	-18	32		Repor
Þ	14	-	Sunderland	28	4	5	5	16	15	3		4	7	15	23	-7	30		Repor
Þ	15	-	Newcastle	28	7	1	6	21	20	1		5	8	17	29	-11	30		Repor
Þ	16	-	Southampton	28	4	5	5	19	17	2		4	8	20	34	-12	27		Repor
۶	17		Wigan	28	2	4	8	17	31	4		2	8	16	24	-22	24		Repor
•	18	-	Aston Villa	28	3	4	7	11	20	2		5	7	15	33	-27	24		Repor
	19	-	Reading	28	4	6	4	22	27	1		2	11	12	27	-20	23		Repor
	20	_	QPR	28	1	7	6	8	21	2		4	8	13	23	-23	20		Repor

http://www.bbc.co.uk/sport/football/tables

I will record all ideas and turn into a sheet that will go on website.

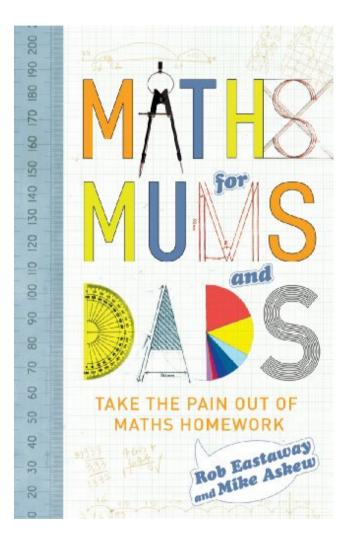


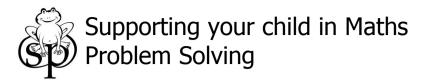
Supporting your child in Maths Problem Solving

<u>Workshop</u>

Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
list, define, tell, describe, identify, show, label, collect, who, when, where.	Summarise, describe, interpret, contrast, predict, associate, distinguish, estimate, differentiate, discuss, extend	apply, demonstrate, calculate, complete, illustrate, show, solve, examine, modify, relate, change, classify, experiment, discover	analyze, separate, order, explain, connect, classify, arrange, divide, compare, select, explain, infer	combine, integrate, modify, rearrange, substitute, plan, create, design, invent, what if?, compose, formulate, prepare, rewrite	assess, decide, rank, test, measure, convince, select, judge, explain, conclude, compare,

A fabulous read with lots of ideas!





In the classrooms....

You may spend time in your child's classroom until approximately 10.10, at this point the children will be getting ready for assembly.

If you have more than one child please feel free to move from one room to the other in your own time.

Lessons are being taught as normal and the teachers attention will be with the other children in the classroom. We would appreciate it if you did not take away from this valuable input by asking questions of the teacher yourself. You may ask questions of Miss Freeman or Miss Godbold who will both be available in the entrance after the session has finished.

Space will be tight and we apologise that we can not accommodate seating in the classrooms for you.