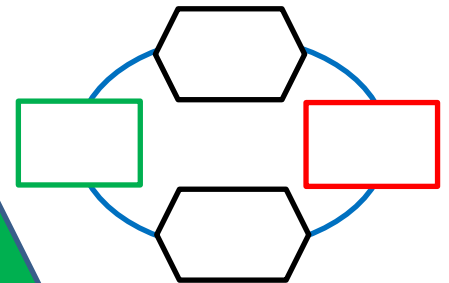
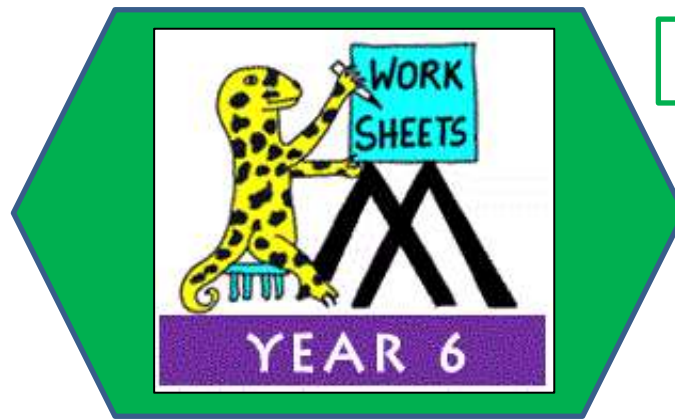
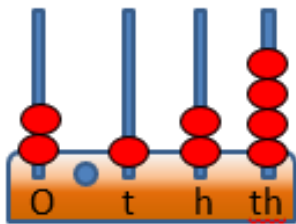


MATH SALAMANDERS YEAR 6 MATHS GRAB PACK 2

This pack is a selection of 10 Maths sheets designed especially for Year 6 pupils.

All the worksheets are also available on our site.



In the pack is a range of number sheets, colouring pages, and puzzles.

There is also an answer pack which you can download separately.

CONTENTS			
1	Place Value to 3dp Sheet 1	6	Total-Difference Puzzle 5A
2	Newton's Crosses Puzzle 5	7	Easter Colour by number Addition to 20
3	Easter Codebreaker 1C	8	Who Chose Which? Puzzle
4	Balloon symmetry	9	Multiplying by tenths sheet 1
5	Number Fill In Puzzle 3	10	Mental Math Quiz 6:2

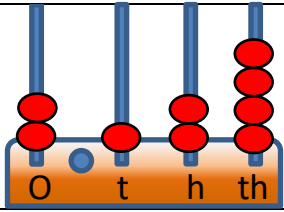
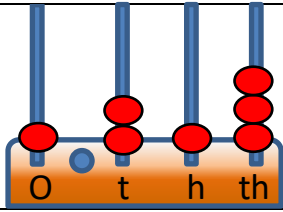
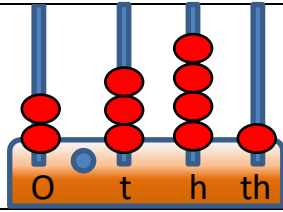
Please give us feedback on our pack – both what you liked and what sheets you would like to see more of by leaving a comment on the link below.

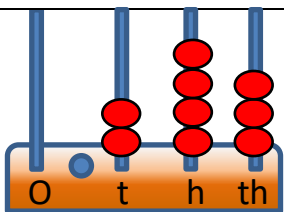
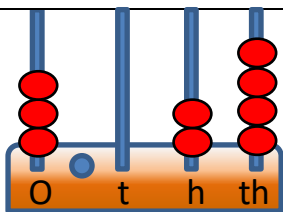
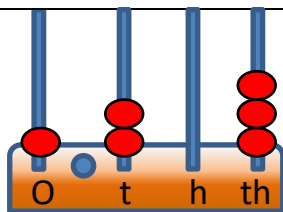
<https://www.math-salamanders.com/math-grab-packs.html>



PLACE VALUE TO 3DP SHEET 1

Use the abacus to work out the numbers shown.

1)	2)	3)
		
= 2.124		

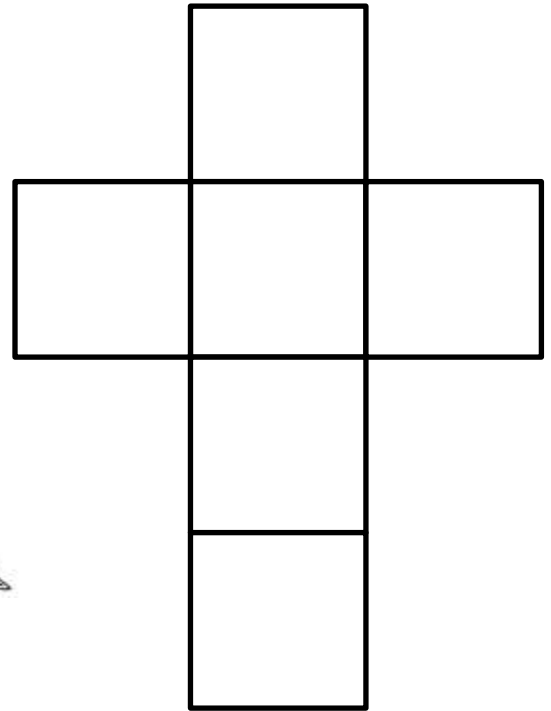
4)	5)	6)
		

7) 3 ones + 2 tenths + 5 hundredths	= 3.25
8) 2 tenths + 6 hundredths + 1 thousandth	=
9) 5 ones + 2 tenths + 4 hundredths + 2 thousandths	=
10) 7 ones + 4 tenths + 3 hundredths + 8 thousandths	=
11) 8 tenths + 2 hundredths + 1 thousandth	=
12) 5 ones + 4 hundredths + 2 thousandths	=
13) 7 tenths + 4 thousandths	=
14) 8 ones + 6 tenths + 3 thousandths	=
15) 3 ones + 4 hundredths + 9 thousandths	=
16) 5 tens + 2 ones + 6 hundredths	=
17) 3 tens + 7 tenths + 2 hundredths + 8 thousandths	=
18) 5 ones + 6 hundredths + 2 thousandths	=
19) 6 tens + 8 ones + 4 hundredths	=
20) 4 ones + 3 thousandths	=



NEWTON'S CROSSES PUZZLE 5

1) Write the numbers 0.3, 0.4, 0.5, 0.6, 0.7 and 0.8 in the correct place so that each of the two lines of the cross adds up to 1.8

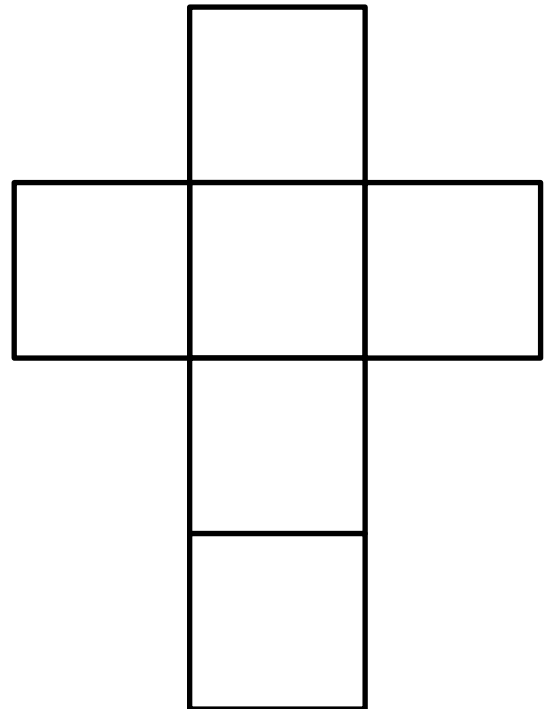


0.3 0.4 0.5 0.6 0.7 0.8

Total must be 1.8



2) Write the numbers 0.3, 0.4, 0.5, 0.6, 0.7 and 0.8 in the squares so that each of the two lines of the cross adds up to 2.



0.3 0.4 0.5 0.6 0.7 0.8

Total must be 2



EASTER CODEBREAKER 1C

ADDITION AND SUBTRACTION TO 1 DP

Use the clues to work out the answer to the Easter joke.

A	B	C	D	E	F	H	K	N	O	P	R	S	T	U	!
2.0	1.4	0.6	0.8	1.1	1.6	0.5	1.3	0.7	0.2	1.8	1.5	0.1	0.4	1.2	1.7

Why couldn't the Easter Rabbit go to the barbers?

Letter	B														
Number	1.4														
Fact	$0.7+0.7$	$1.5-0.4$	$2-1.4$	$0.5+1.5$	$0.3+0.9$	$1.4-1.3$	$0.3+0.8$								

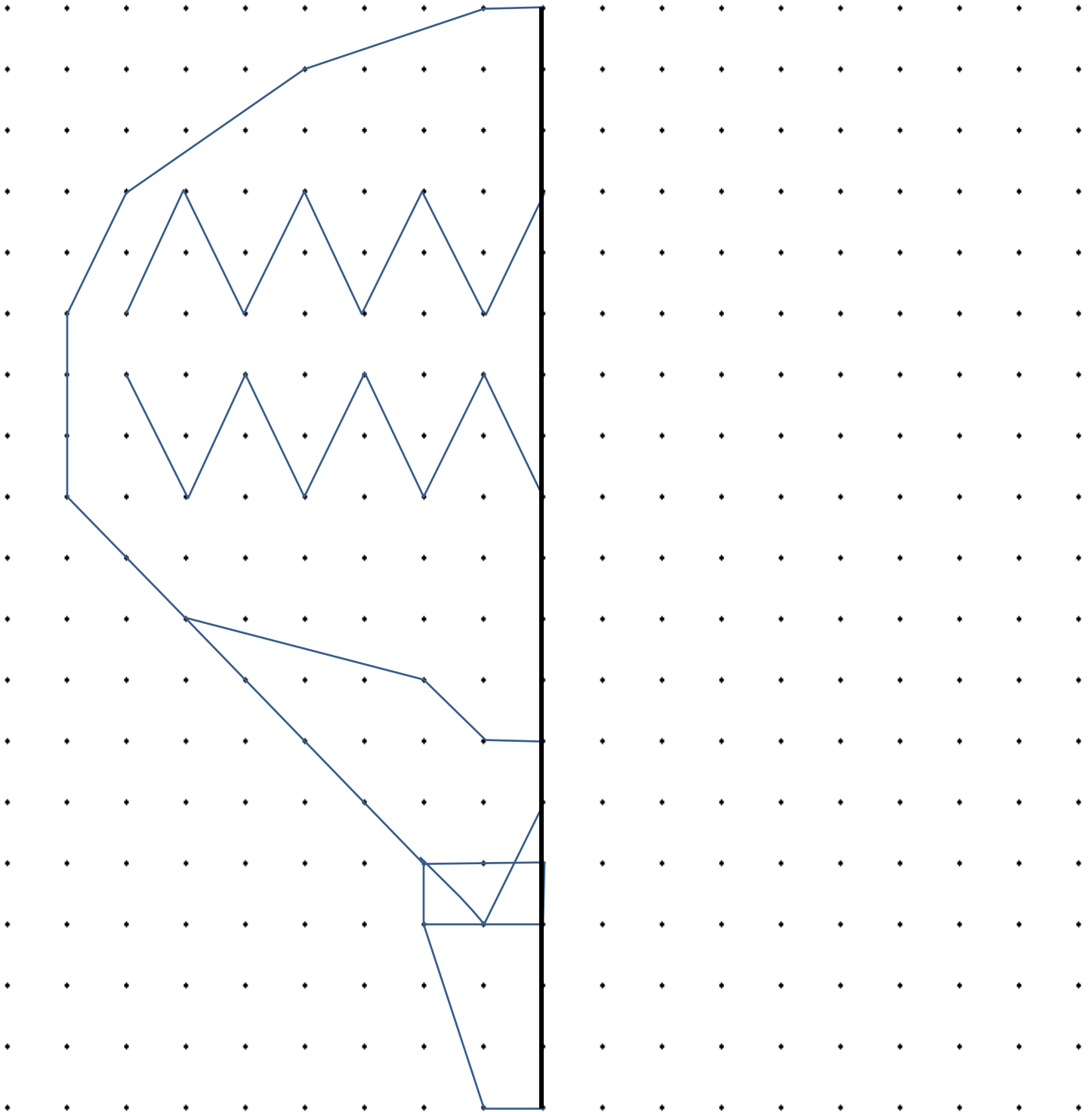
Letter															
Number															
Fact	$1.3-0.8$	$1.6-0.5$		$1.7-1.2$	$0.8+1.2$	$1.3-0.5$		$2-1.3$	$1.3-1.1$						

Letter															
Number															
Fact	$1.4-0.9$	$1.4+0.6$	$0.6+0.9$	$0.8+0.3$		$1.5-1.1$	$1.7-1.5$								

Letter															
Number															
Fact	$2-1.9$	$0.9+0.9$	$0.6+0.5$	$1.1+0.9$	$1.7-0.4$		$0.8-0.6$	$1.2+0.4$	$0.8+0.9$						



Draw the other half of this shape using the line of symmetry and then colour it in.



NUMBER FILL IN PUZZLE 3

Work out which of the numbers goes in each space in the puzzle below.
One of the numbers has been done for you.

5											
6											
2											
9											
7											
1											
					9	7	0	2			

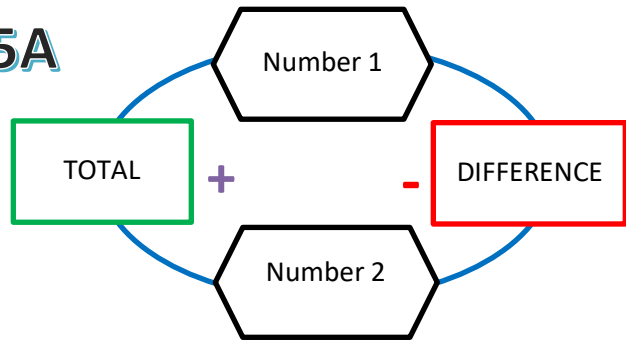
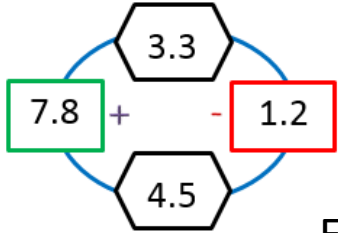
3 DIGITS	4 DIGITS		5 DIGITS		6 DIGITS
187	1098	6279	18091	53784	159304
260	1947	7386	23765	67037	562971
365	3265	7649	25971	87197	
705	4671	8063	35876	94102	
729	5069	9702	39678	95471	
963	5934	9746			
973					



TOTAL DIFFERENCE PUZZLE 5A

This is how the puzzle works!

Example



Fill in the missing numbers in the puzzles below!



EASTER COLOUR BY NUMBER: CROSS ADDITION TO 20

6+6	10+3	4+8	5+4	1+8	5+6	0+2	1+4	6+4	5+7	10+4	6+7	2+11	6+6	7+5	3+10
6+7	2+11	4+1	2+2	1+3	1+0	3+1	4+9	7+7	5+8	8+3	2+7	7+5	3+11	6+8	4+9
0+1	2+2	7+5	3+2	6+5	10+1	3+8	4+5	9+0	7+3	6+6	8+5	10+4	5+9	2+11	13+0
4+10	6+7	2+8	10+1	3+6	5+4	8+5	10+2	5+9	4+8	11+2	3+10	9+5	4+8	6+6	4+10
6+8	3+10	7+6	8+6	10+4	6+7	11+2	8+8	4+9	2+12	6+8	4+8	11+3	8+2	3+7	5+6
7+6	9+4	8+6	2+10	14+0	4+9	5+7	4+11	2+12	5+5	7+4	3+8	4+6	6+3	2+8	9+2
4+6	1+9	8+5	9+3	1+11	4+8	6+8	13+2	2+2	9+0	4+0	1+2	2+2	5+5	1+8	3+8
7+4	6+5	4+6	3+1	8+6	10+6	7+9	6+10	8+9	4+13	5+5	1+4	2+2	1+8	3+7	6+4
2+8	3+2	1+4	6+6	4+9	7+7	6+5	5+12	1+10	8+3	2+7	4+5	5+0	2+1	3+6	1+8
2+11	6+8	9+3	3+10	7+5	4+8	3+9	15+2	7+7	9+4	7+5	3+9	8+1	1+3	5+7	11+2
9+5	4+10	6+6	7+6	2+8	7+3	2+12	2+14	9+4	3+11	6+3	1+10	5+13	10+9	5+14	7+12
10+1	4+6	5+5	6+4	3+6	7+4	9+2	10+5	1+9	4+7	2+9	6+12	15+4	17+2	6+14	9+10
7+2	1+8	4+6	3+8	7+3	6+3	5+15	7+8	7+12	9+9	13+6	11+8	10+9	7+12	13+5	14+4
4+2	8+0	1+7	13+6	12+8	4+15	13+7	11+4	8+12	5+15	18+2	9+10	5+15	7+13	4+15	16+4
3+3	8+11	13+7	12+6	5+15	1+7	5+10	8+8	11+4	4+4	2+6	7+0	6+14	8+12	15+4	7+11
4+4	1+7	6+0	2+4	5+2	9+8	4+13	2+13	8+7	6+10	9+7	7+1	2+6	0+8	14+4	6+12
3+4	1+6	4+4	7+1	5+10	12+4	8+9	7+8	11+5	6+9	11+5	3+13	2+4	5+1	5+3	4+3
8+0	7+9	5+10	9+8	5+11	6+9	14+2	8+8	4+12	7+8	11+6	2+15	14+2	3+14	3+4	1+7
6+10	9+6	4+11	15+2	4+12	7+9	8+7	5+12	3+13	7+10	2+15	0+16	8+8	6+11	4+13	0+8
11+6	2+13	5+10	4+11	7+8	9+7	5+12	6+10	8+8	6+9	2+13	9+7	14+2	3+13	7+9	11+5

KEY		
0 to 5 white	6 to 8 orange	9 to 11 gray
12 to 14 blue	15 to 17 black	18 to 20 brown



WHO CHOSE WHICH?

Sally, Captain, Tyger, Flame and Newton all chose a different number from the list below.



Sally



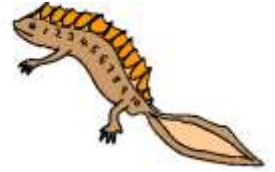
Captain



Tyger



Flame



Newton



Use the clues below to work out which number each of them chose, and which number was not chosen by any of them.

- Flame's number was even and it was not the smallest number.
- The salamander who chose the smallest number was not the Captain or Newton.
- Captain's number was odd, but it was not prime.
- Sally chose a number that was divisible by both 4 and 6.
- Newton's number is a multiple of 13.
- Tyger's number was larger than the average.

Can you make up your own number problem with clues like these?



MULTIPLYING BY TENTHS SHEET 1

Have a look at these number machines and use your multiplication knowledge to fill in the missing numbers. Remember if $3 \times 4 = 12$, then $0.3 \times 4 = 1.2$ and $3 \times 0.4 = 1.2$

1) $\xrightarrow{\quad \times 0.4 \quad \rightarrow}$

2	\longrightarrow	0.8
5	\longrightarrow	2.0
7	\longrightarrow	
3	\longrightarrow	
9	\longrightarrow	
6	\longrightarrow	
4	\longrightarrow	

2) $\xrightarrow{\quad \times 0.1 \quad \rightarrow}$

2	\longrightarrow	0.2
5	\longrightarrow	
7	\longrightarrow	
3	\longrightarrow	
9	\longrightarrow	
6	\longrightarrow	
4	\longrightarrow	

3) $\xrightarrow{\quad \times 0.2 \quad \rightarrow}$

2	\longrightarrow	0.4
5	\longrightarrow	
7	\longrightarrow	
3	\longrightarrow	
9	\longrightarrow	
6	\longrightarrow	
4	\longrightarrow	

4) $\xrightarrow{\quad \times 0.6 \quad \rightarrow}$

5	\longrightarrow	
3	\longrightarrow	
4	\longrightarrow	
6	\longrightarrow	
2	\longrightarrow	
8	\longrightarrow	
4	\longrightarrow	

5) $\xrightarrow{\quad \times 0.8 \quad \rightarrow}$

5	\longrightarrow	
3	\longrightarrow	
4	\longrightarrow	
6	\longrightarrow	
2	\longrightarrow	
8	\longrightarrow	
4	\longrightarrow	

6) $\xrightarrow{\quad \times 0.3 \quad \rightarrow}$

5	\longrightarrow	
3	\longrightarrow	
4	\longrightarrow	
6	\longrightarrow	
2	\longrightarrow	
8	\longrightarrow	
4	\longrightarrow	

7) $\xrightarrow{\quad \times 0.9 \quad \rightarrow}$

8	\longrightarrow	
3	\longrightarrow	
9	\longrightarrow	
6	\longrightarrow	
4	\longrightarrow	
7	\longrightarrow	
4	\longrightarrow	

8) $\xrightarrow{\quad \times 0.5 \quad \rightarrow}$

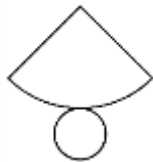
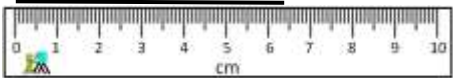
8	\longrightarrow	
3	\longrightarrow	
9	\longrightarrow	
6	\longrightarrow	
4	\longrightarrow	
7	\longrightarrow	
4	\longrightarrow	

9) $\xrightarrow{\quad \times 0.7 \quad \rightarrow}$

8	\longrightarrow	
3	\longrightarrow	
9	\longrightarrow	
6	\longrightarrow	
4	\longrightarrow	
7	\longrightarrow	
4	\longrightarrow	



MENTAL MATHS QUIZ 6:2

1)	Find $\frac{3}{4}$ of £32.	
2)	$1 - 0.92$	
3)	Find the value of $(x - 6)/3$ if $x = 21$.	
4)	$10 \times 4 = 26 + \underline{\quad}$	
5)	Round 6.283 to 1dp	
6)	What is the missing number? 7.3 <u> </u> 8.1 8.5 8.9	
7)	What 3d shape is this the net for?	
8)	How many faces does a triangular prism have?	
9)	In a group of children, $\frac{3}{5}$ like to play tennis. If there are 25 children, how many do not like tennis?	
10)	Timmy and Tommy are two boys whose ages add up to 23. Timmy is 5 years older than Tommy. How old are they?	
11)	How long is the line?	
12)	What is the mean of 13, 7, 8 and 4?	
13)	Which is the smallest ? 0.37 0.194 0.6 0.473 0.29	
14)	$3\frac{2}{5} + 2\frac{1}{5}$	
15)	How much is half of a quarter?	
16)	A rectangular swimming pool measures $5\frac{1}{2}$ metres by $3\frac{1}{2}$ metres. What is the perimeter ?	
17)	What do angles around a point add up to?	
18)	The ratio of lions to tigers in a zoo is 1:3. If there are 4 lions, how many tigers will there be?	

