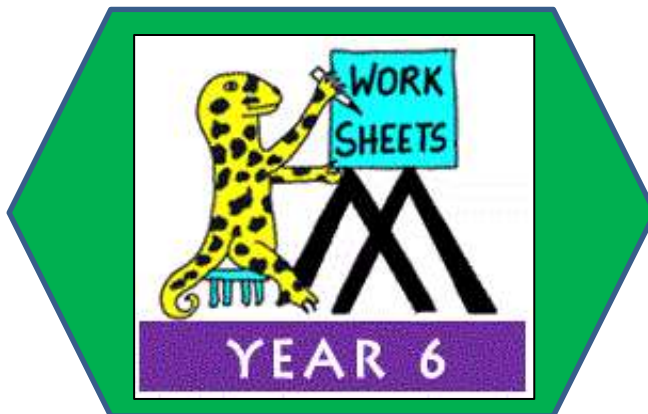


# MATH SALAMANDERS YEAR 6

## MATHS GRAB PACK 2 ANSWERS



Here are answers to all the worksheets in Year 6 Maths Grab Pack 2.

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>



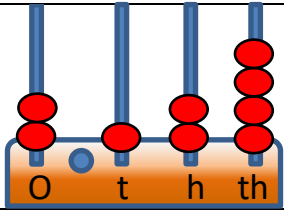
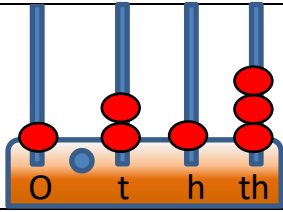
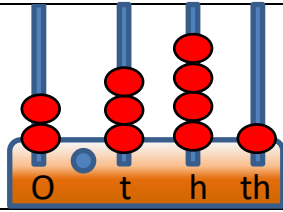
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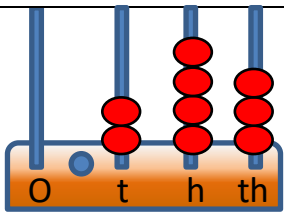
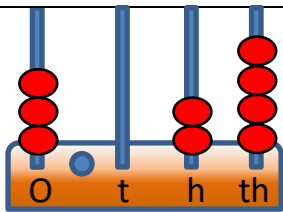
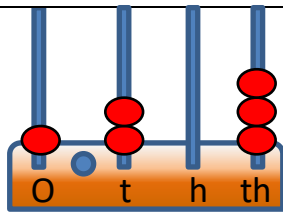
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# PLACE VALUE TO 3DP SHEET 1 ANSWERS

Use the abacus to work out the numbers shown.

1)	2)	3)
		
= 2.124	<u>1.213</u>	<u>2.341</u>

4)	5)	6)
		
<u>0.243</u>	<u>3.024</u>	<u>1.203</u>

7) 3 ones + 2 tenths + 5 hundredths	= 3.25
8) 2 tenths + 6 hundredths + 1 thousandth	= 0.261
9) 5 ones + 2 tenths + 4 hundredths + 2 thousandths	= 5.242
10) 7 ones + 4 tenths + 3 hundredths + 8 thousandths	= 7.438
11) 8 tenths + 2 hundredths + 1 thousandth	= 0.821
12) 5 ones + 4 hundredths + 2 thousandths	= 5.042
13) 7 tenths + 4 thousandths	= 0.704
14) 8 ones + 6 tenths + 3 thousandths	= 8.603
15) 3 ones + 4 hundredths + 9 thousandths	= 3.049
16) 5 tens + 2 ones + 6 hundredths	= 52.06
17) 3 tens + 7 tenths + 2 hundredths + 8 thousandths	= 30.728
18) 5 ones + 6 hundredths + 2 thousandths	= 5.062
19) 6 tens + 8 ones + 4 hundredths	= 68.04
20) 4 ones + 3 thousandths	= 4.003



## NEWTON'S CROSSES PUZZLE 5 ANSWERS

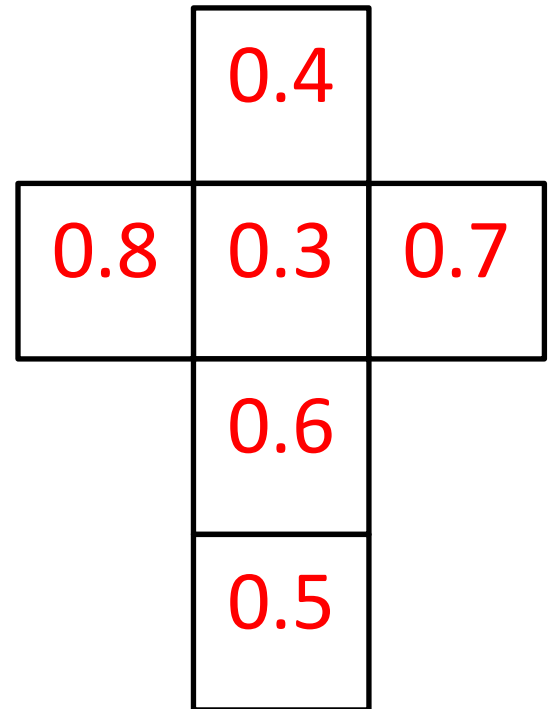
Please note that there are several solutions for each cross puzzle. As long as the number in the centre of the cross is the same as the solution below, and the rows and columns contain the same numbers then the answer should work even if the numbers are in a different place.

**One possible solution for each puzzle is given.**

1)

0.3 0.4 0.5 0.6 0.7 0.8

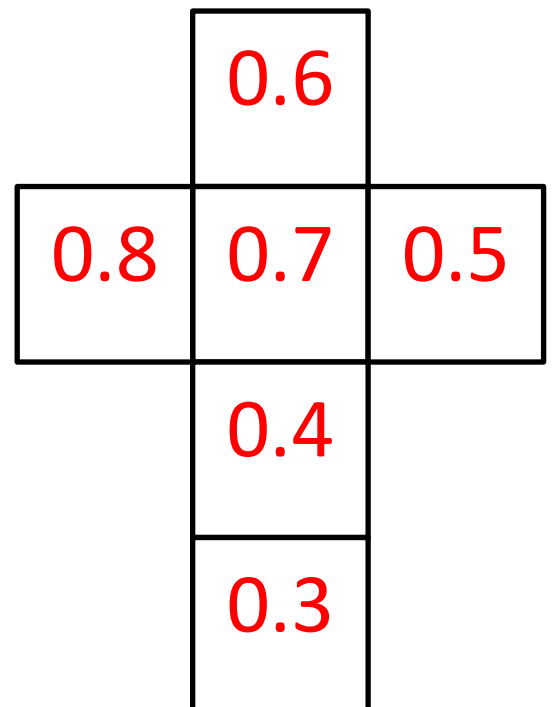
**Total must be 1.8**



2)

0.3 0.4 0.5 0.6 0.7 0.8

**Total must be 2**



# EASTER CODEBREAKER 1C ANSWERS

## ADDITION AND SUBTRACTION TO 1DP

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	E	C	A	U	S	E		
Number	1.4	1.1	0.6	2.0	1.2	0.1	1.1		
Fact	$0.7+0.7$	$1.5-0.4$	$2-1.4$	$0.5+1.5$	$0.3+0.9$	$1.4-1.3$	$0.3+0.8$		

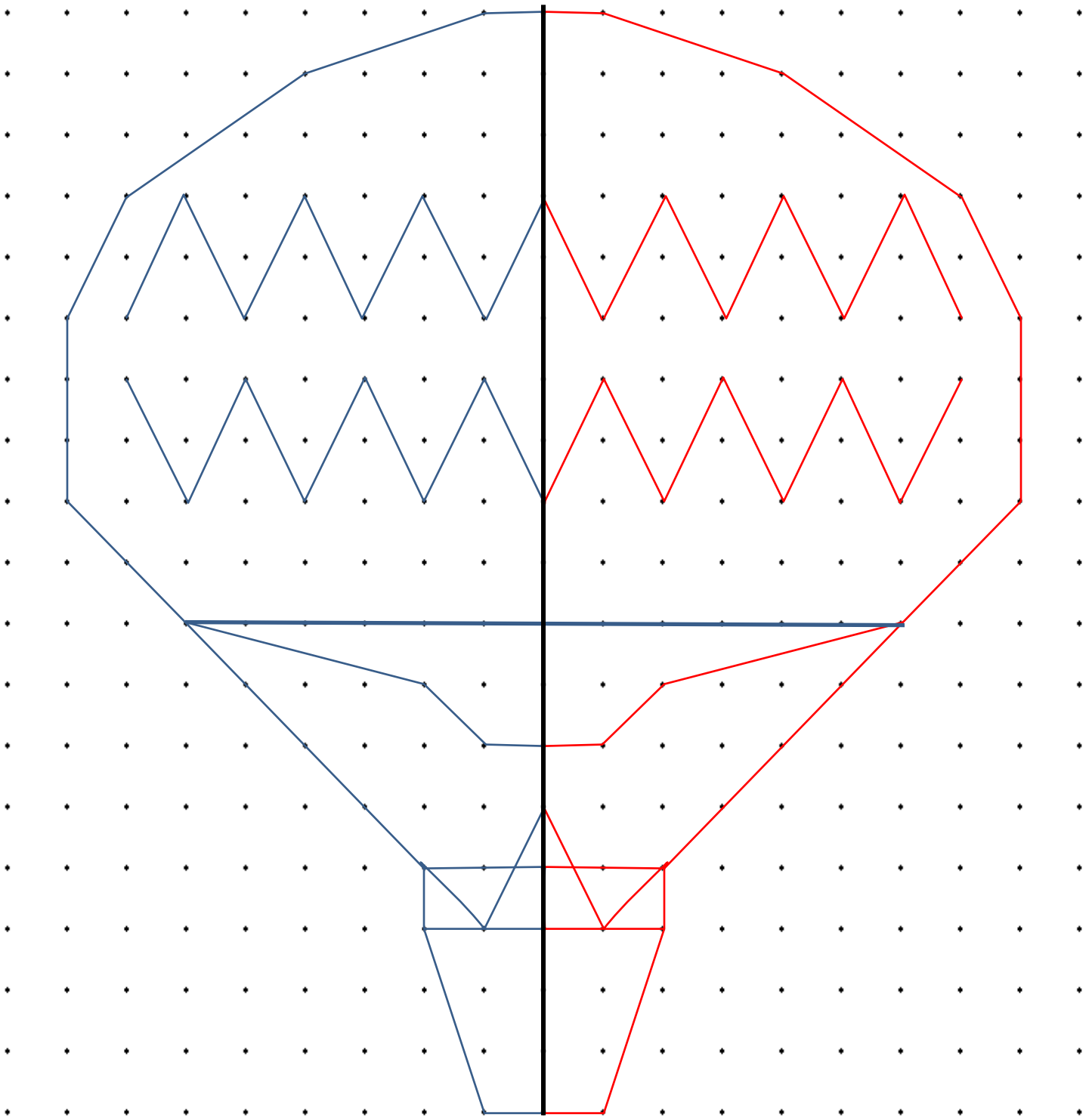
Letter	H	E		H	A	D		N	O
Number	0.5	1.1		0.5	2.0	0.8		0.7	0.2
Fact	$1.3-0.8$	$1.6-0.5$		$1.7-1.2$	$0.8+1.2$	$1.3-0.5$		$2-1.3$	$1.3-1.1$

Letter	H	A	R	E		T	O		
Number	0.5	2.0	1.5	1.1		0.4	0.2		
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	S	P	E	A	K		O	F	!
Number	0.1	1.8	1.1	2.0	1.3		0.2	1.6	1.7
Fact	$2-1.9$	$0.9+0.9$	$0.6+0.5$	$1.1+0.9$	$1.7-0.4$		$0.8-0.6$	$1.2+0.4$	$0.8+0.9$



1 LINE SYMMETRY BALLOON ANSWERS



# NUMBER FILL IN PUZZLE 3 ANSWERS

5		8		9	4	1	0	2			9
6	7	0	3	7		0		3	2	6	5
2		6		4		9		7			4
9		3	9	6	7	8		6			7
7			7		6		2	5	9	7	1
1	5	9	3	0	4		6			3	
	0				9	7	0	2		8	
4	6	7	1			2			3	6	5
	9		8	7	1	9	7		5		9
9			0		9		0		8		3
6	2	7	9		4		5	3	7	8	4
3			1	8	7				6		

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



# TOTAL DIFFERENCE PUZZLE 5A ANSWERS

<p> <math>3.9 + 2.7 - 1.2 = 1.5</math> </p>	<p> <math>6.8 + 4.5 - 2.3 = 2.2</math> </p>	<p> <math>5.2 + 1.8 - 3.4 = 1.6</math> </p>
<p> <math>3.5 + 0.8 - 2.7 = 1.9</math> </p>	<p> <math>9.7 + 6.5 - 3.2 = 3.3</math> </p>	<p> <math>11.3 + 4.7 - 6.6 = 1.9</math> </p>
<p> <math>9.7 + 6.3 - 3.4 = 2.9</math> </p>	<p> <math>5.3 + 2.6 - 2.7 = 0.1</math> </p>	<p> <math>9.3 + 7.8 - 1.5 = 6.3</math> </p>



## EASTER COLOUR BY NUMBER: CROSS ADDITION TO 20 COMPLETED

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? ANSWERS

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



Sally



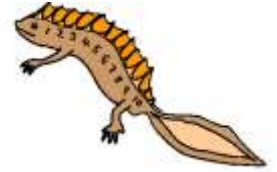
Captain



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.

Sally 24

Captain 75

Tyger 47

Flame 36

Newton 52

The number 29 was not chosen by any of them.



# MULTIPLYING BY TENTHS SHEET 1 ANSWERS

1)  $\boxed{\times 0.4}$

2	→	<b>0.8</b>
5	→	<b>2.0</b>
7	→	<u>2.8</u>
3	→	<u>1.2</u>
9	→	<u>3.6</u>
6	→	<u>2.4</u>
4	→	<u>1.6</u>

2)  $\boxed{\times 0.1}$

2	→	<b>0.2</b>
5	→	<u>0.5</u>
7	→	<u>0.7</u>
3	→	<u>0.3</u>
9	→	<u>0.9</u>
6	→	<u>0.6</u>
4	→	<u>0.4</u>

3)  $\boxed{\times 0.2}$

2	→	<b>0.4</b>
5	→	<u>1.0</u>
7	→	<u>1.4</u>
3	→	<u>0.6</u>
9	→	<u>1.8</u>
6	→	<u>1.2</u>
4	→	<u>0.8</u>

4)  $\boxed{\times 0.6}$

5	→	<u>3.0</u>
3	→	<u>1.8</u>
4	→	<u>2.4</u>
6	→	<u>3.6</u>
2	→	<u>1.2</u>
8	→	<u>4.8</u>
4	→	<u>2.4</u>

5)  $\boxed{\times 0.8}$

5	→	<u>4.0</u>
3	→	<u>2.4</u>
4	→	<u>3.2</u>
6	→	<u>4.8</u>
2	→	<u>1.6</u>
8	→	<u>6.4</u>
4	→	<u>3.2</u>

6)  $\boxed{\times 0.3}$

5	→	<u>1.5</u>
3	→	<u>0.9</u>
4	→	<u>1.2</u>
6	→	<u>1.8</u>
2	→	<u>0.6</u>
8	→	<u>2.4</u>
4	→	<u>1.2</u>

7)  $\boxed{\times 0.9}$

8	→	<u>7.2</u>
3	→	<u>2.7</u>
9	→	<u>8.1</u>
6	→	<u>5.4</u>
4	→	<u>3.6</u>
7	→	<u>6.3</u>
4	→	<u>3.6</u>

8)  $\boxed{\times 0.5}$

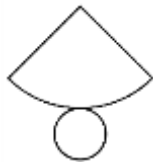
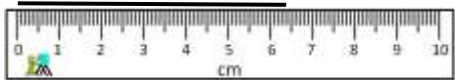
8	→	<u>4</u>
3	→	<u>1.5</u>
9	→	<u>4.5</u>
6	→	<u>3.0</u>
4	→	<u>2.0</u>
7	→	<u>3.5</u>
4	→	<u>2</u>

9)  $\boxed{\times 0.7}$

8	→	<u>5.6</u>
3	→	<u>2.1</u>
9	→	<u>6.3</u>
6	→	<u>4.2</u>
4	→	<u>2.8</u>
7	→	<u>4.9</u>
4	→	<u>2.8</u>



# MENTAL MATHS QUIZ 6:2 ANSWERS

1)	Find $\frac{3}{4}$ of £32.	<b>£24</b>
2)	$1 - 0.92$	<b>0.08</b>
3)	Find the value of $(x - 6)/3$ if $x = 21$ .	<b>5</b>
4)	$10 \times 4 = 26 + \underline{\quad}$	<b>14</b>
5)	Round 6.283 to 1dp	<b>6.3</b>
6)	What is the missing number? 7.3 <u>    </u> 8.1 8.5 8.9	<b>7.7</b>
7)	What 3d shape is this the net for? 	<b>cone</b>
8)	How many faces does a triangular prism have?	<b>5</b>
9)	In a group of children, $\frac{3}{5}$ like to play tennis. If there are 25 children, how many do not like tennis?	<b>10</b>
10)	Timmy and Tommy are two boys whose ages add up to 23. Timmy is 5 years older than Tommy. How old are they?	<b>Tommy 9 Timmy 14</b>
11)	How long is the line? 	<b>6.4cm</b>
12)	What is the <b>mean</b> of 13, 7, 8 and 4?	<b>8</b>
13)	Which is the <b>smallest</b> ? 0.37 0.194 0.6 0.473 0.29	<b>0.194</b>
14)	$3\frac{2}{5} + 2\frac{1}{5}$	<b><math>5\frac{3}{5}</math></b>
15)	How much is half of a quarter?	<b><math>\frac{1}{8}</math></b>
16)	A rectangular swimming pool measures $5\frac{1}{2}$ metres by $3\frac{1}{2}$ metres. What is the <b>perimeter</b> ?	<b>18m</b>
17)	What do angles around a point add up to?	<b><math>360^\circ</math></b>
18)	The <b>ratio</b> of lions to tigers in a zoo is 1:3. If there are 4 lions, how many tigers will there be?	<b>12</b>