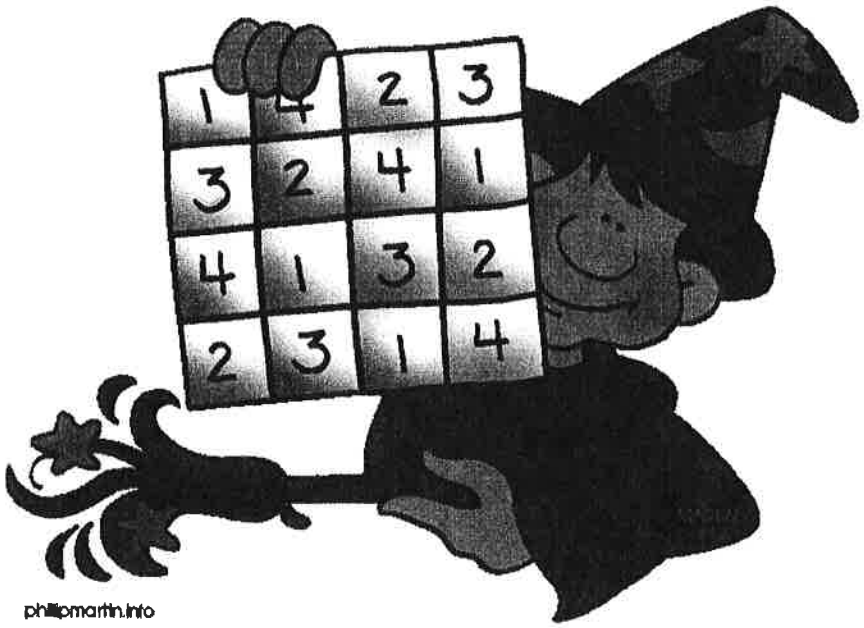
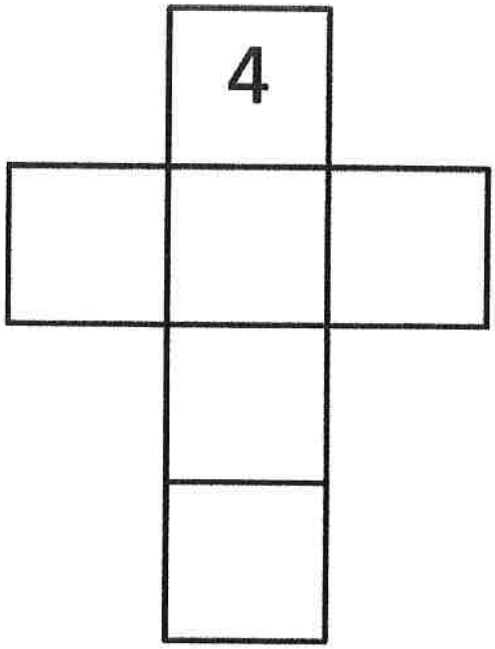
Math Puzzles and Riddles For Grade 3



Name Date

NEWTON'S CROSSES PUZZLE 3

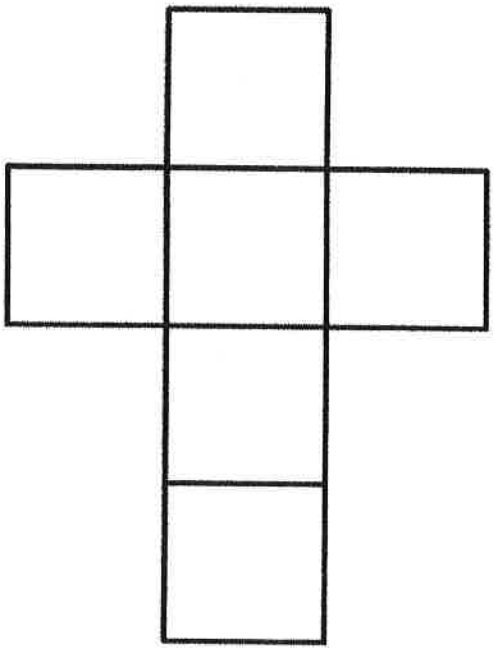
1) Write the numbers 2, 3, 5, 6 and 7 in the correct place so that each line of the cross adds up to 15.



2 3 5 6 7

Total must be 15

2) Write the numbers 2, 3, 4, 5, 6 and 7 in the squares so that each line of the cross adds up to 17.



2 3 4 5 6 7

Total must be 17

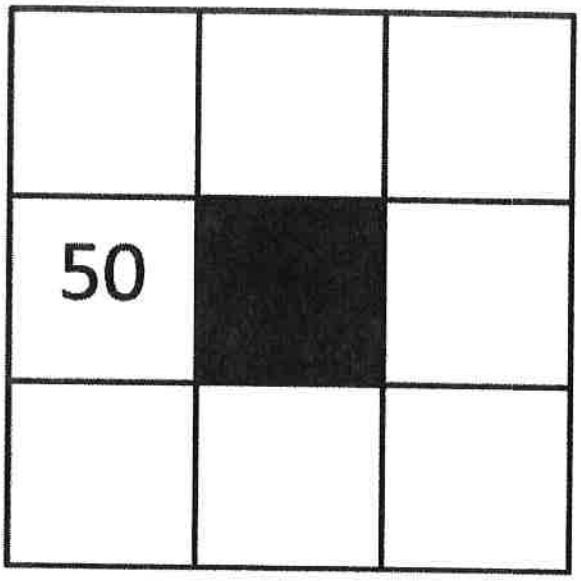
Name Date

QUADRA'S SQUARE PUZZLE 3

1) Write the numbers 10, 20, 30, 40, 60, 70 and 80 in the correct place so that each side of the square adds up to 150.

10 20 30 40 60 70 80

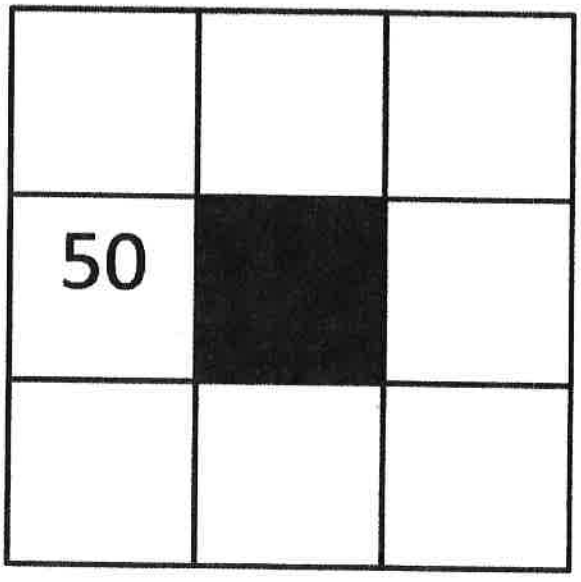
Total must be 150



2) Can you write the numbers 10, 20, 30, 40, 60, 70, 80 in the correct place so that each side of the square adds up to 120?

10 20 30 40 60 70 80

Total must must be 120



Name Date

MAGIC SQUARE 3

A magic square is a square where each line of 3 numbers (vertical, horizontal and diagonal) adds up to the same amount.

1) Write the numbers 3, 4, 5, 6, 8, 9, 10, and 11 in the correct place so that each line (vertical, horizontal and diagonal) adds up to 21.

3 4 5 6 8 9 10 11

Total must be 21

	7	

2) Can you find another magic square with the same total and numbers?

3 4 5 6 8 9 10 11

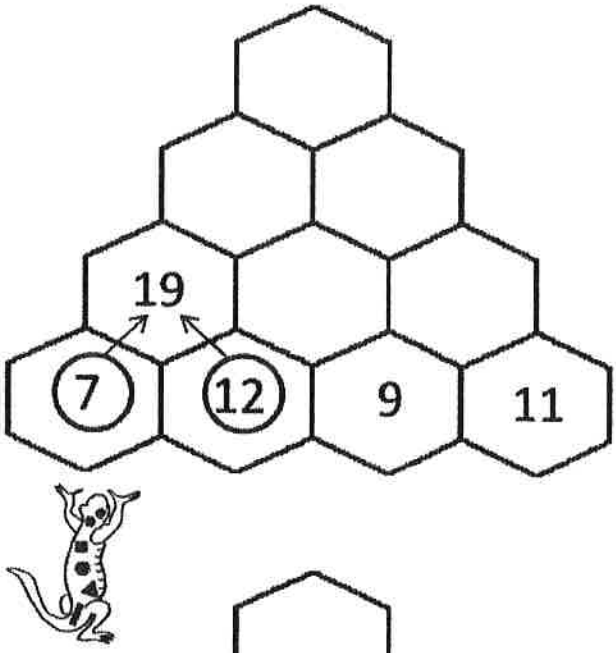
Total must be 21

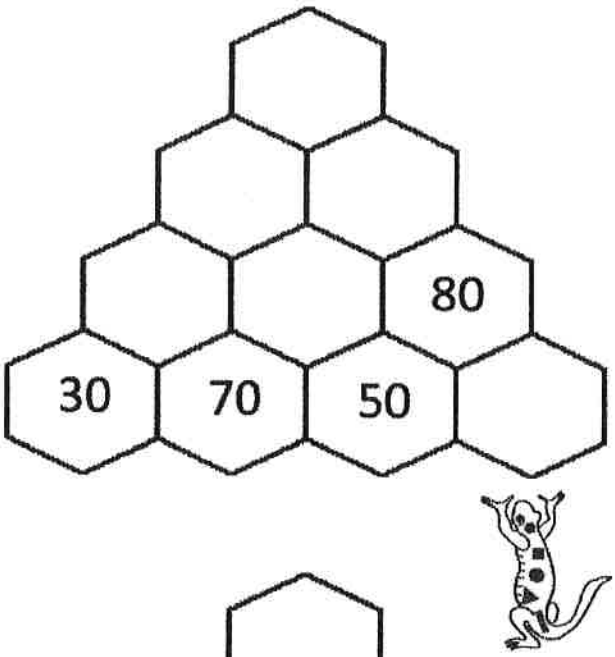
	7	

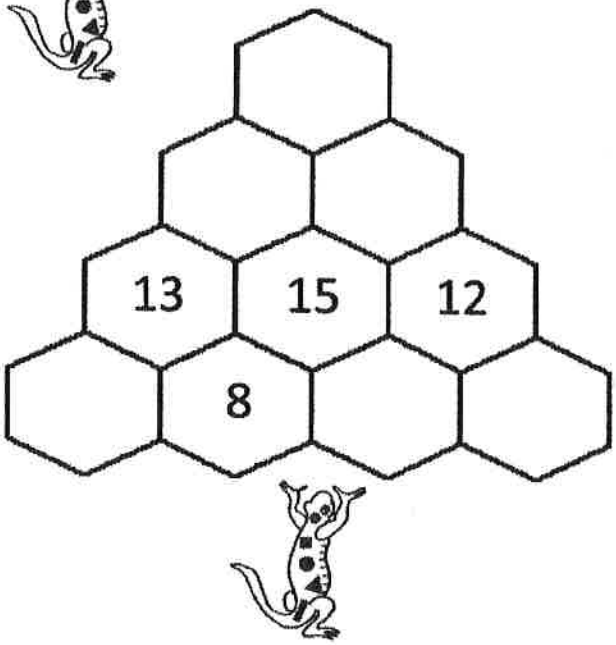
Name Date

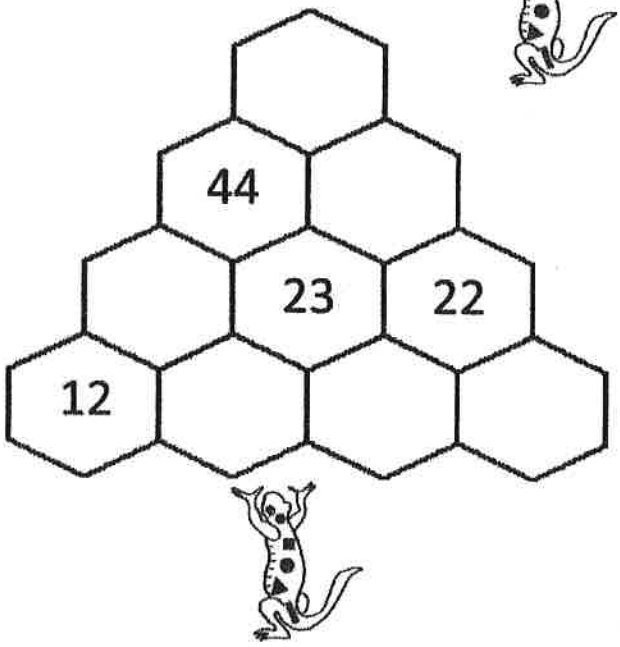
SALLY'S HEXAGON NUMBER PUZZLE 3

Each hexagon is made by adding up the numbers in the two hexagons below it. Fill in the missing numbers in these puzzles.





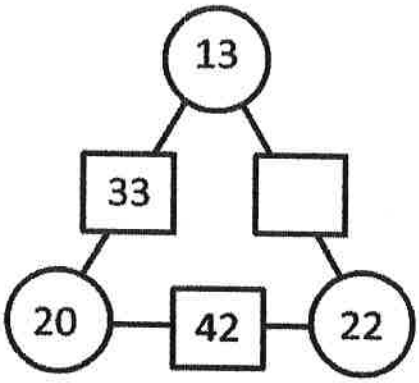


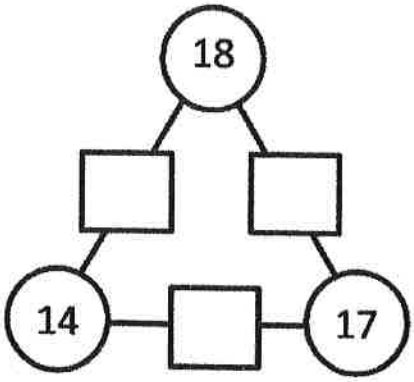


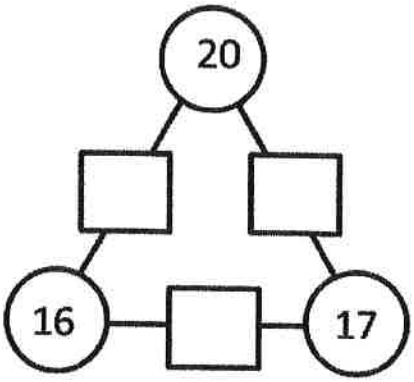
Name Date

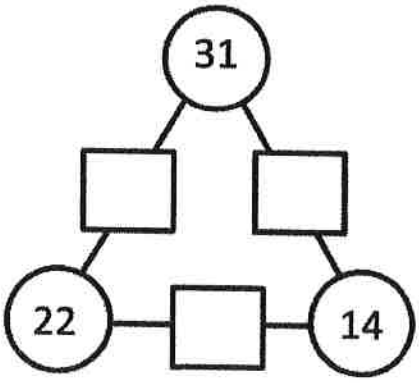
ARITHMOGON TRIANGLE PUZZLE 3A

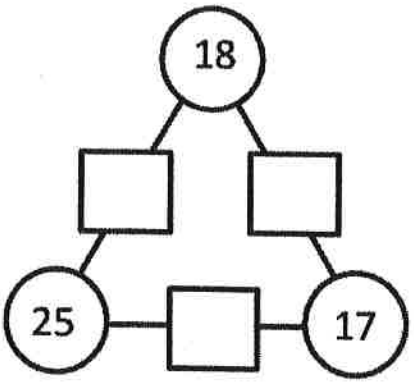
The numbers in the circles added together makes the number in the linking rectangle. Find the missing numbers in this puzzle.

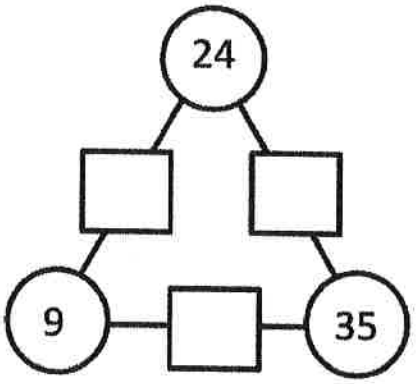


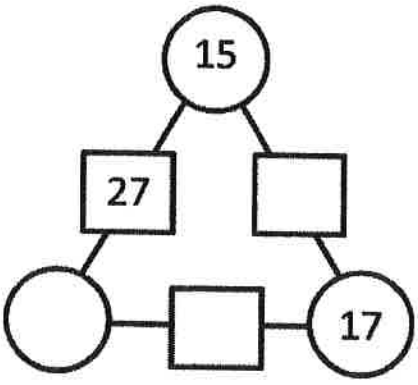


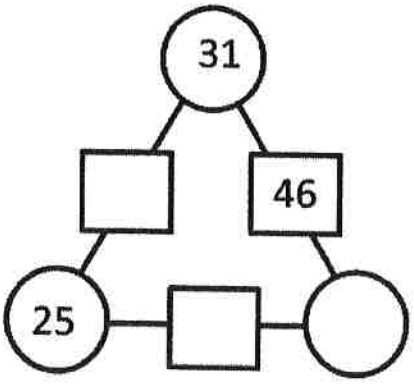


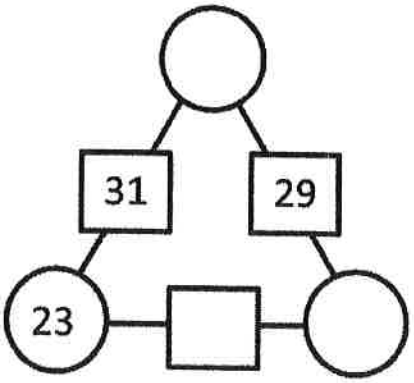




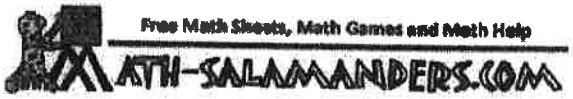


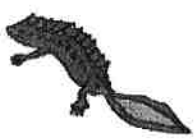






Remember to check your answers carefully.



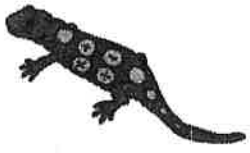


Name Date

QUADRA'S OPERATION PUZZLE 3

In each box, choose a sign: +, -, x or = to make the calculation correct. You can use the same operation more than once!

10	=	4	x	3	-	2
7	◯	2	=	10	◯	4
3	◯	7	◯	11	=	10
7	◯	3	◯	2	=	6
12	=	5	◯	3	◯	3
4	◯	4	◯	2	◯	8
5	◯	4	◯	3	◯	2
2	◯	4	◯	3	◯	5
10	◯	6	◯	1	◯	4
8	◯	6	◯	7	◯	2



Name Date

MAKE 50

Use the numbers in the grid each time.

13	28	6	35	17
34	11	18	44	37
20	16	15	30	22

Challenge 1

Find **pairs** of numbers that add up to 50.

Try to find 6 different pairs.

Challenge 2

Try to find sets of **3** numbers that add up to make 50.

Try to find 3 different answers.

Name Date

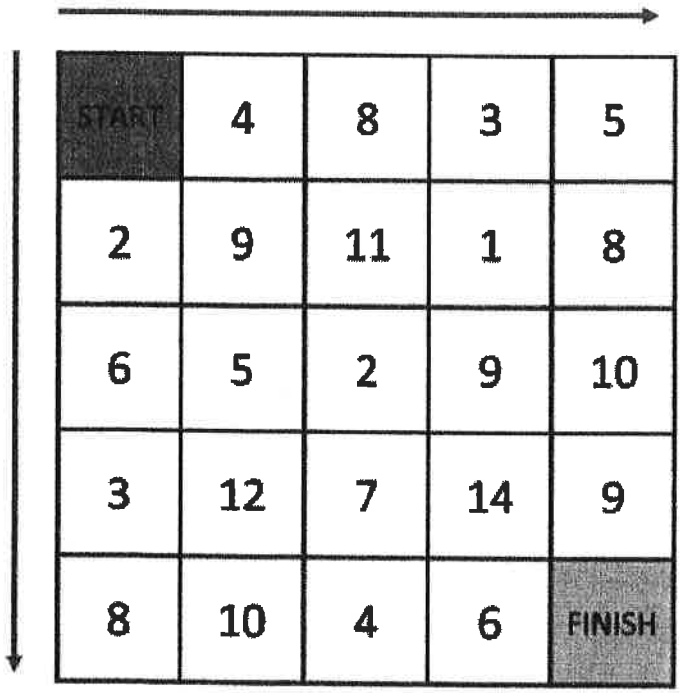
NUMBER GRID CHALLENGE 3: TARGET 50

Start the maze with zero.

You have to finish the maze with a total of 50.

Your route can go **right** or **down** at each turn.

There are 4 possible routes. Can you find them?



Extra Challenge

Find the route with the highest total.

Find the route with the lowest total.

Name Date

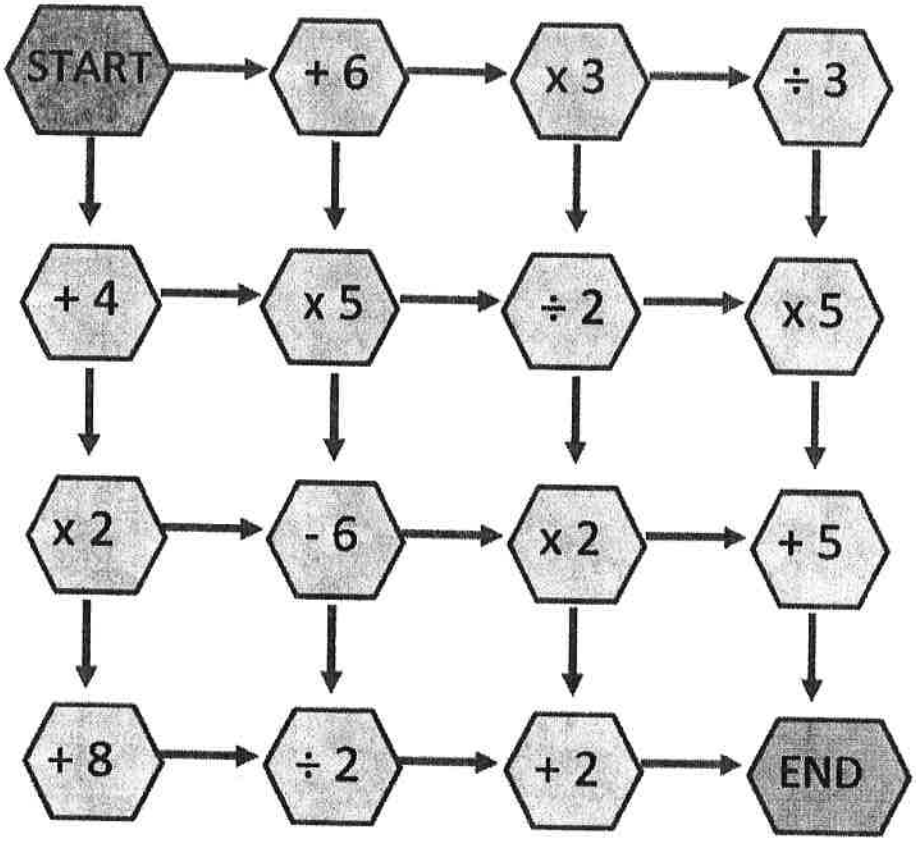
NUMBER MAZE: TARGET 50

Start the maze with zero.

You have to finish the maze with a total of 50.

You must follow one of the arrows each time.

There are two possible routes. Can you find them?



Extra Challenge

Find the route with the highest total.

Find the route with the lowest total.

Name Date

MATH RIDDLES 3A

Select the correct answer from a choice of 8 possibilities.

1) I am a 3 digit number.
I am greater than 350.
My hundreds digit is even.
I am not a multiple of 5.
Who am I?

782	495	328	294
684	583	835	962

2) I am not a multiple of 10.
My tens digit is a multiple of 3.
If you round me to the nearest 100, I become 500.
Who am I?

427	476	562	460
528	592	530	535

Name Date

MATH RIDDLES 3B

Select the correct answer from a choice of 8 possibilities.

1) I am not a multiple of 7.

I am one away from a multiple of 10.

I am less than twelve tens.

If you round me to the nearest ten, then I round up not down.

Who am I?

99	63	41	131
51	78	129	49

2) I am more than double 120.

All my digits are odd.

I am not a multiple of 5.

I am less than half of 800.

Who am I?

375	517	249	173
420	257	313	394

Name Date

MATH RIDDLES 3C

Select the correct answer from a choice of 8 possibilities.

1) I greater than 4500.

I am not a multiple of 5.

My nearest thousand is 8000.

If you round me to the nearest ten, then I round down.

Who am I?

6172	8095	2167	4520
7773	8916	906	8207

2) I am less than 3 ½ thousand.

I am one away from a multiple of 5.

My digits are in descending order.

If you halve me, then you get a whole number.

Who am I?

2826	874	2162	9520
1059	1143	3201	5421