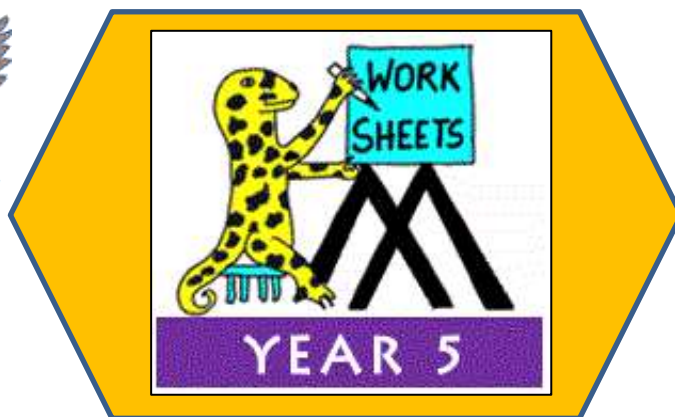


MATH SALAMANDERS

YEAR 5 MATHS GRAB PACK 4

This pack is a selection of 10 Maths sheets and 1 game adapted for Year 5 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.

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6	Line Symmetry Sheet 7		

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/maths-grab-packs.html>



READING AND WRITING BIG NUMBERS CHALLENGE 2

- Write the correct value of each number next to each number written in words.
- Put the numbers in the correct place in the number puzzle.
- Order the numbers correctly in the table below.

Three hundred twenty-seven thousand, six hundred and nineteen _____

Seven hundred forty-one thousand and ninety-three _____

Two million, nine hundred thirty-six thousand and eighty-one _____

Five hundred forty-two thousand, seven hundred and thirty _____

Eight million, nine hundred one thousand, four hundred and seventy-three _____

One million, four hundred six thousand, two hundred and seventy-one _____

Five hundred seventeen thousand, four hundred and nine _____

Twenty thousand, three hundred and fifty-seven _____

		5					
			6				
							4
			3				
				7			
		9					

ORDERING
biggest
smallest



PROBLEM SOLVING - GREAT WINGED WONDERS (METRIC UNITS)

Below are some of the birds with the largest wingspans on the planet. Have a look at them carefully and then answer the questions.

Bird	Wingspan (m)	Nearest m	Order of wingspan
Albatross	3.72	4	1
Andean condor	3.20		
Bearded vulture	2.83		
Golden eagle			
Great white pelican	3.60		
White stork	1.80		
Whooper swan			
Whooping crane	2.29		

1) Use the facts below to fill in the missing information:

- The wingspan of the golden eagle is 33cm shorter than the bearded vulture.
- The wingspan of the whooper swan is 48cm longer than the whooping crane.

2) Round the wingspans to the nearest metre, and then fill in the column on the table.

3) Put the wingspans in the correct order from largest (1) to smallest (8).

4) How much longer is the wingspan of the great white pelican compared to the white stork? _____ cm

5) How much shorter is the wingspan of the whooping crane than the bearded vulture? _____ cm



NUMBER FILL IN PUZZLE 4

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

						1					
						4					
						2					
						6					
						1					
		3	4	8	7	5					

3 DIGITS		4 DIGITS		5 DIGITS	
217	625	1524	5371	14261	41385
246	756	1594	6174	24173	71490
251	842	2652	6205	34875	75216
258	924	3861	7326	35420	90162
321	925	4528	8275		
328	961	4832	9527		
367		5290			



FRACTION RIDDLES 4B

Use the clues to find the correct fraction from the 8 possibilities.

CHALLENGE 1

- I am not more than a half.
- I am not equivalent to a half.
- I have the same value as a third.
- My numerator is odd.

Who am I? _____

A $\frac{3}{6}$	B $\frac{2}{5}$	C $\frac{4}{6}$	D $\frac{5}{10}$
E $\frac{3}{9}$	F $\frac{4}{8}$	G $\frac{4}{10}$	H $\frac{2}{6}$

CHALLENGE 2

- My denominator is even.
- My numerator is a prime number.
- I am equivalent to a half.
- The value of my denominator is a quarter of 24.

Who am I? _____



SOMETHING FISHY #1!



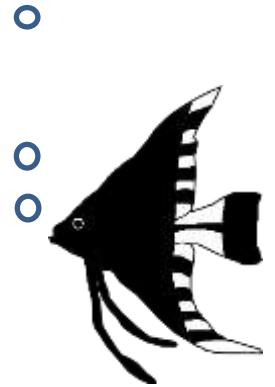
A clownfish costs £15 to buy.

An angelfish costs £24 to buy.

Sally spends exactly £150 on some clownfish and some angelfish.

She buys at least one of each.

How many of each type did she buy?

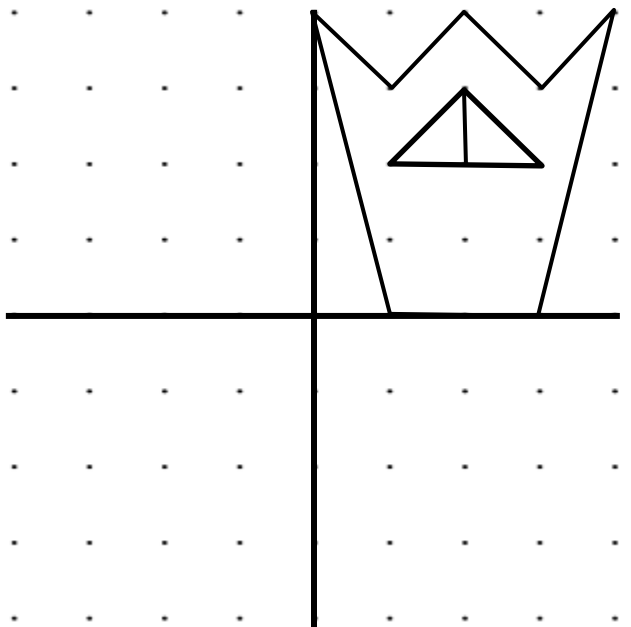
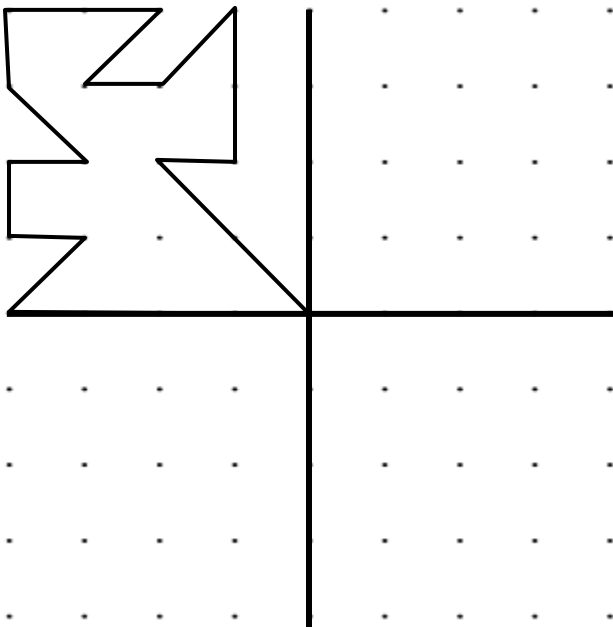
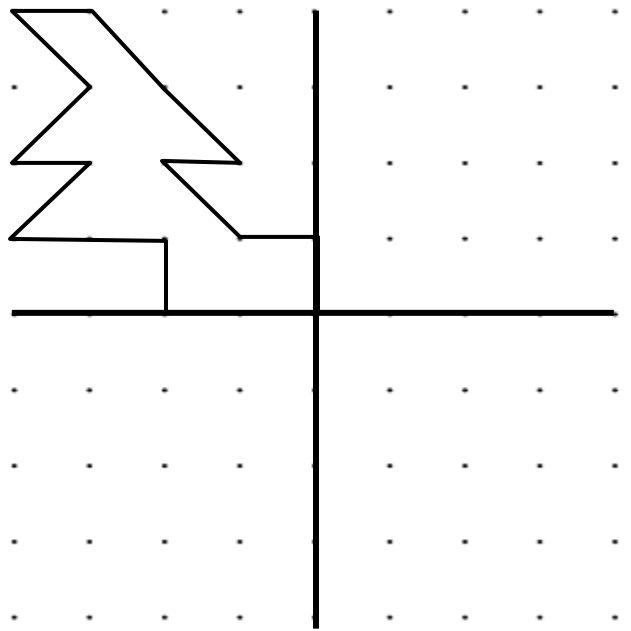
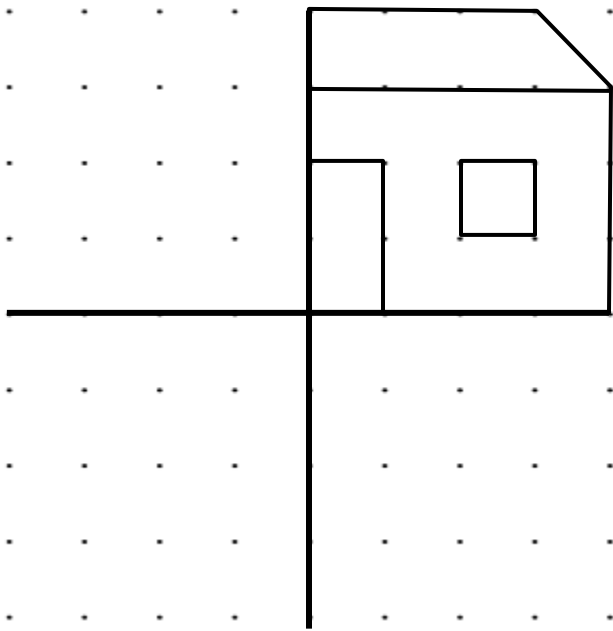


What if the angelfish were put in a half-price sale?

How many of each type could she have bought then? (There are two possible answers.)

LINE SYMMETRY SHEET 7

Use the 2 mirror lines to complete the rest of these patterns.



ROW OF COINS CHALLENGES 4:2



Use the same coins (above) for both challenges.

CHALLENGE A

Put the coins above in a row so that:

- the total of the first 4 coins is £2.25.
- the total of the last 4 coins is £1.65p.
- the last coin is worth more than double the first coin.
- The third coin is the lowest value coin.

CHALLENGE B

Put the coins above in a row so that:

- There are two coins in between the two £1 coins.
- The middle two coins add up to worth £1.20
- The first 3 coins add up to £1.15.
- The 2nd coin is worth half the value of the 4th coin.

MULTIPLICATION: 3-DIGITS BY 1-DIGIT SHEET 1

Multiply a 3-digit number by 2, 3, 4 or 5.

$$\begin{array}{r} 1) \quad 136 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 205 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 173 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 613 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 524 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 813 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 386 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 483 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 695 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 481 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 276 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 797 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 804 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 489 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 625 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 323 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 618 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 564 \\ \times \quad 5 \\ \hline \end{array}$$



INEQUALITIES SHEET 4:1

- Work out the answer to each calculation and write the answer underneath. The first one is done for you.
- Between each pair of calculations use the correct symbol $>$, $<$ or $=$.

1) 4×3 $>$ $2 + 9$
 $= 12$ $= 11$

11) $29 + 17$ _____ 6×8

2) $30 - 17$ _____ 2×7

12) $28 \div 4$ _____ $\frac{1}{2}$ of 14

3) $\frac{1}{2}$ of 30 _____ 5×3

13) 40×3 _____ $200 - 80$

4) 30×4 _____ $200 - 50$

14) 4×90 _____ 30×10

5) 5×9 _____ $17 + 27$

15) 9×5 _____ $100 - 45$

6) $18 \div 6$ _____ $21 - 19$

16) 60×7 _____ $500 - 90$

7) 3×9 _____ $100 - 72$

17) 37×10 _____ $600 - 220$

8) 7×6 _____ $37 + 14$

18) $\frac{1}{2}$ of 280 _____ 7×20

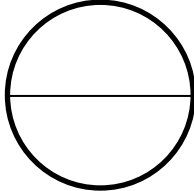
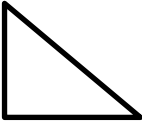
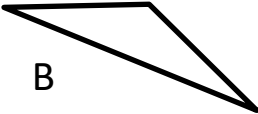
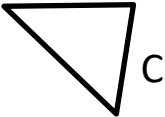
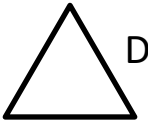
9) $90 - 67$ _____ 6×4

19) 30×8 _____ 10×23

10) $\frac{1}{2}$ of 38 _____ 3×7

20) 7×9 _____ $38 + 37$

MENTAL MATHS QUIZ 5:4

1)	60×8	
2)	$1 - \underline{\quad} = 0.72$	
3)	$\frac{2}{3}$ of 24	
4)	$10 \times (7 + 6)$	
5)	Find the value of y if $y - 8 = 15$.	
6)	What is this part of the circle called? <i>diameter radius circumference sector</i>	
7)	$4 \frac{1}{4} + 3 + 5 \frac{1}{2}$	
8)	In a class, $\frac{4}{7}$ of the children like football. What fraction do not like football?	
9)	I am a triangle with 1 obtuse and 2 acute angles. Who am I? A  B  C  D 	
10)	What are the next two numbers: 1, 3, 6, 10, 15, 21, __, __	
11)	What is the probability of rolling a 3 on a 6-sided dice?	
12)	Entry to a zoo costs £30 for an adult and £25 for a child. How much would it cost for 2 adults and 3 children?	
13)	Five children play a computer game and score 12, 15, 7, 8 and 10 points. What is the median score?	
14)	A paperclip is made out of 9.8cm of wire. How many paperclips could I make with 1 metre of wire?	
15)	I travel at 50 miles per hour for 4 hours. How far have I gone?	
16)	A train journey takes 3h 40min. If I arrive at 1:30pm, what time did I set off?	

SALAMANDER SHOOT OUT -10 to 10

Age range: 4th grade+

Number of players: 2

Learning: add, subtract, multiply and divide with numbers from -10 to 10

You will need:

- 3 Dice
- The Shoot-out Game board
- 9 counters in different colours

Instructions:

- You can choose which board you wish to play with: one of the board is already filled in with numbers. The blank board has been designed so that players can choose their own numbers from -10 to 10 to fill in before the game starts.
- Take turns to throw the dice.
- Use the numbers on the dice and your addition, subtraction, multiplication and division skills to make the numbers on one of the uncovered part of your grid.
Example: if you roll a 2, 5 and a 4, you could make **3** ($4 \times 2 - 5$), a **-7** ($2 - 5 - 4$), a **-3** ($5 - 4 \times 2$), etc.
- Shoot out the number on the grid by covering it up with one of your counters. Tell your partner how you made it.
- If you can't make a number on one of the uncovered parts of your grid, (or if your working out is wrong) you give the dice to the next player.
- The winner is the player who finishes shooting out all their grid first!


Variations (if you fancy changing the rules...):

- Play the game with more players by printing off more game sheets.
- (Quicker game) The winner is the first person who shoots out a row of 3 numbers on their grid (horizontal, vertical or diagonal).
- (Longer game) Any player is allowed to shoot out any number on any grid. When the grids are all shot-out, the player with the most counters placed on the grids is the winner.

SALAMANDER SHOOT OUT -10 TO 10

-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
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Who will be first to shoot out their opponents numbers?

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


-3	4	2
8	-1	0
-5	3	-6
PLAYER 1		

4	8	-5
1	-2	-7
-1	3	2
PLAYER 2		

