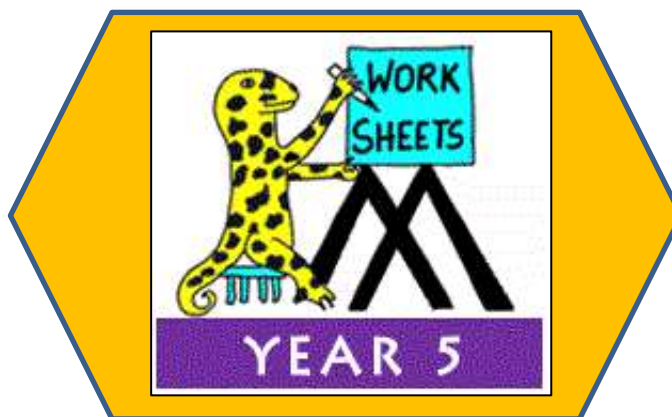
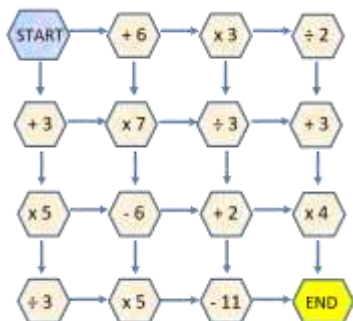


MATH SALAMANDERS

YEAR 5 MATHS GRAB PACK 3

This pack is a selection of 10 Maths sheets and one 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.

CONTENTS			
1	3-Digit Addition Money 2	7	Line Symmetry Sheet 6
2	Big Number Challenges 1	8	Equivalent Fractions Sheet 3
3	Newton's Crosses Puzzle 4	9	Number Maze Target 64
4	5-Digit Subtraction Sheet 3	10	Mental Maths Quiz 5:3
5	Easter Codebreaker Sheet 3	11	2D Shape Grabber Game
6	Make Me 100 Challenge		

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>



3-DIGIT ADDITION MONEY SHEET 2

$$\begin{array}{r} 1) \quad \pounds 4.67 \\ + \pounds 2.63 \\ \hline \pounds \end{array} \quad \begin{array}{r} 2) \quad \pounds 5.09 \\ + \pounds 3.35 \\ \hline \pounds \end{array} \quad \begin{array}{r} 3) \quad \pounds 9.26 \\ + \pounds 3.77 \\ \hline \pounds \end{array} \quad \begin{array}{r} 4) \quad \pounds 8.32 \\ + \pounds 5.16 \\ \hline \pounds \end{array}$$

$$\begin{array}{r} 5) \quad \pounds 4.64 \\ + \pounds 1.95 \\ \hline \pounds \end{array} \quad \begin{array}{r} 6) \quad \pounds 7.85 \\ + \pounds 3.80 \\ \hline \pounds \end{array} \quad \begin{array}{r} 7) \quad \pounds 8.73 \\ + \pounds 0.99 \\ \hline \pounds \end{array} \quad \begin{array}{r} 8) \quad \pounds 3.58 \\ + \pounds 4.36 \\ \hline \pounds \end{array}$$

$$\begin{array}{r} 9) \quad \pounds 8.97 \\ + \pounds 3.58 \\ \hline \pounds \end{array} \quad \begin{array}{r} 10) \quad \pounds 9.75 \\ + \pounds 5.34 \\ \hline \pounds \end{array} \quad \begin{array}{r} 11) \quad \pounds 3.48 \\ + \pounds 5.86 \\ \hline \pounds \end{array} \quad \begin{array}{r} 12) \quad \pounds 6.29 \\ + \pounds 7.81 \\ \hline \pounds \end{array}$$

$$\begin{array}{r} 13) \quad \pounds 6.93 \\ + \pounds 0.85 \\ \hline \pounds \end{array} \quad \begin{array}{r} 14) \quad \pounds 5.26 \\ + \pounds 6.64 \\ \hline \pounds \end{array} \quad \begin{array}{r} 15) \quad \pounds 9.95 \\ + \pounds 7.57 \\ \hline \pounds \end{array} \quad \begin{array}{r} 16) \quad \pounds 6.49 \\ + \pounds 8.87 \\ \hline \pounds \end{array}$$

$$\begin{array}{r} 17) \quad \pounds 1.36 \\ + \pounds 0.52 \\ + \pounds 2.41 \\ \hline \pounds \end{array} \quad \begin{array}{r} 18) \quad \pounds 5.38 \\ + \pounds 2.05 \\ + \pounds 0.77 \\ \hline \pounds \end{array} \quad \begin{array}{r} 19) \quad \pounds 3.84 \\ + \pounds 6.47 \\ + \pounds 1.41 \\ \hline \pounds \end{array} \quad \begin{array}{r} 20) \quad \pounds 2.95 \\ + \pounds 0.66 \\ + \pounds 6.18 \\ \hline \pounds \end{array}$$

$$\begin{array}{r} 21) \quad \pounds 1.36 \\ + \pounds 0.52 \\ + \pounds 2.41 \\ \hline \pounds \end{array} \quad \begin{array}{r} 22) \quad \pounds 5.38 \\ + \pounds 2.05 \\ + \pounds 0.77 \\ \hline \pounds \end{array} \quad \begin{array}{r} 23) \quad \pounds 3.84 \\ + \pounds 6.47 \\ + \pounds 1.41 \\ \hline \pounds \end{array} \quad \begin{array}{r} 24) \quad \pounds 2.95 \\ + \pounds 0.66 \\ + \pounds 6.18 \\ \hline \pounds \end{array}$$

Remember to align your decimal point.



BIG NUMBER CHALLENGES 1

CHALLENGE A

In each of the numbers below, write down the value of the digit 5.

Example: in the number 625728 the value of the digit 5 is 5,000.

1) 162,754 _____ 2) 593,192 _____ 3) 7,259,136 _____

4) 9,275,806 _____ 5) 1,237,506 _____ 6) 5,381,274 _____

CHALLENGE B

372,581	725,894	1,036,845	925,307	2,368,427
---------	---------	-----------	---------	-----------

Look at the clues below, and work out the correct answer from the list above.

- I am greater than half a million but less than 2 million.
- I am odd.
- If you round me to the nearest 100,000 you get 900,000.

Who am I?

CHALLENGE C

5,286,492	3,094,385	879,562
1,473,790	8,203,179	6,244,846

Look at the clues below, and work out the correct answer from the list above.

- I am not a multiple of 5.
- If you round me to the nearest million, I am greater than a million.
- At least one of my digits is odd.
- My largest digit is my tens digit.

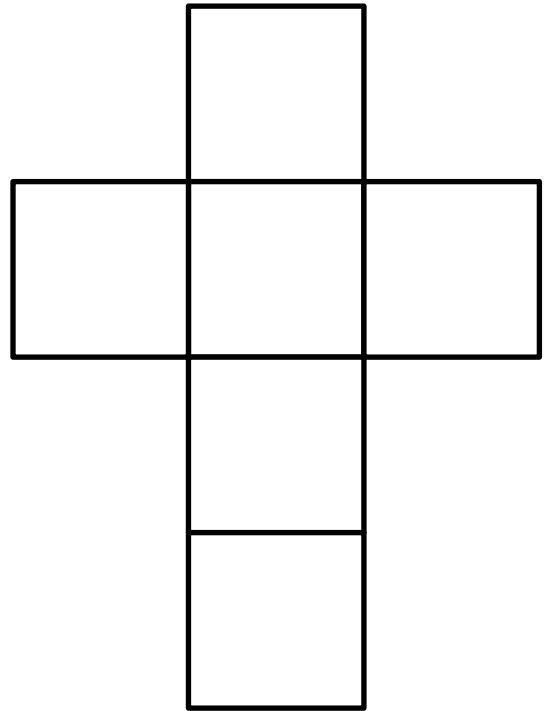
Who am I?

NEWTON'S CROSSES PUZZLE 4

1) Write the numbers -6, -4, 1, 2, 3 and 5 in the correct place so that each line of the cross adds up to 3.

-6 -4 1 2 3 5

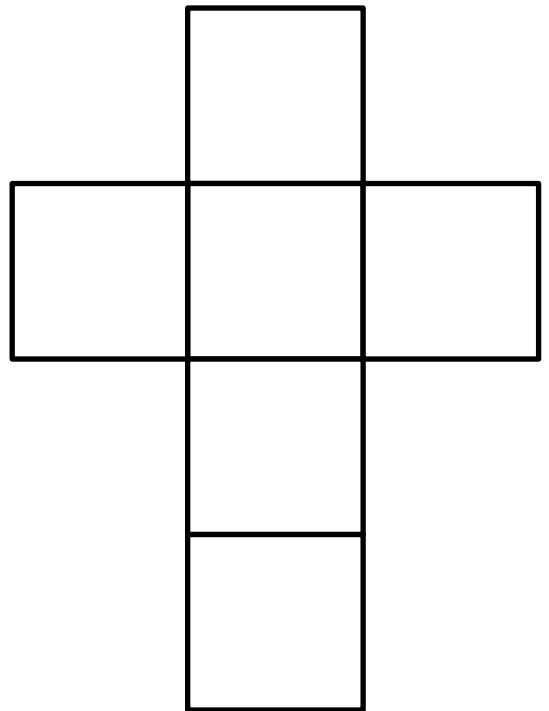
Total must be 3



2) Write the numbers -6, -5, 2, 3, 4 and 7 in the squares so that each line of the cross adds up to 0.

-6 -5 2 3 4 7

Total must be 0



5-DIGIT SUBTRACTION SHEET 3

$$\begin{array}{r} 1) \quad 6 \ 7 \ 4 \ 1 \ 3 \\ - \quad 1 \ 8 \ 2 \ 6 \ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 7 \ 0 \ 5 \ 3 \ 1 \\ - \quad 4 \ 5 \ 2 \ 8 \ 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 5 \ 7 \ 4 \ 6 \ 2 \\ - \quad 1 \ 8 \ 7 \ 3 \ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 7 \ 9 \ 1 \ 2 \ 4 \\ - \quad 3 \ 6 \ 7 \ 8 \ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 8 \ 1 \ 4 \ 2 \ 3 \\ - \quad 6 \ 8 \ 2 \ 5 \ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 9 \ 7 \ 0 \ 1 \ 1 \\ - \quad 5 \ 2 \ 6 \ 4 \ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 4 \ 6 \ 1 \ 0 \ 7 \\ - \quad 2 \ 8 \ 5 \ 3 \ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 7 \ 5 \ 1 \ 1 \ 6 \\ - \quad 4 \ 4 \ 9 \ 7 \ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 6 \ 0 \ 0 \ 5 \ 7 \\ - \quad 4 \ 9 \ 5 \ 2 \ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 8 \ 0 \ 0 \ 9 \ 5 \\ - \quad 4 \ 7 \ 4 \ 6 \ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 5 \ 0 \ 7 \ 0 \ 3 \\ - \quad 3 \ 8 \ 2 \ 1 \ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 7 \ 1 \ 4 \ 2 \ 6 \\ - \quad 5 \ 7 \ 5 \ 8 \ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 9 \ 0 \ 0 \ 0 \ 6 \\ - \quad 4 \ 7 \ 9 \ 5 \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 5 \ 1 \ 2 \ 3 \ 6 \\ - \quad 1 \ 9 \ 8 \ 6 \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 7 \ 4 \ 6 \ 7 \ 8 \\ - \quad 5 \ 8 \ 6 \ 9 \ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 8 \ 2 \ 3 \ 4 \ 1 \\ - \quad 4 \ 5 \ 2 \ 7 \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 6 \ 4 \ 0 \ 0 \ 0 \\ - \quad \quad 9 \ 8 \ 5 \ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 5 \ 4 \ 3 \ 7 \ 2 \\ - \quad 4 \ 7 \ 8 \ 6 \ 6 \\ \hline \end{array}$$



EASTER CODEBREAKER 1C

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



MAKE ME 100

Here is Newton's Make Me 100 challenge.

- You have to use each of the numbers between 1 and 10.
- You have to use them in order, along with any of the four operations.
- You have to end up with 100.
- You can use brackets if you wish.

1 2 3 4 5 6 7 8 9 10 = 100



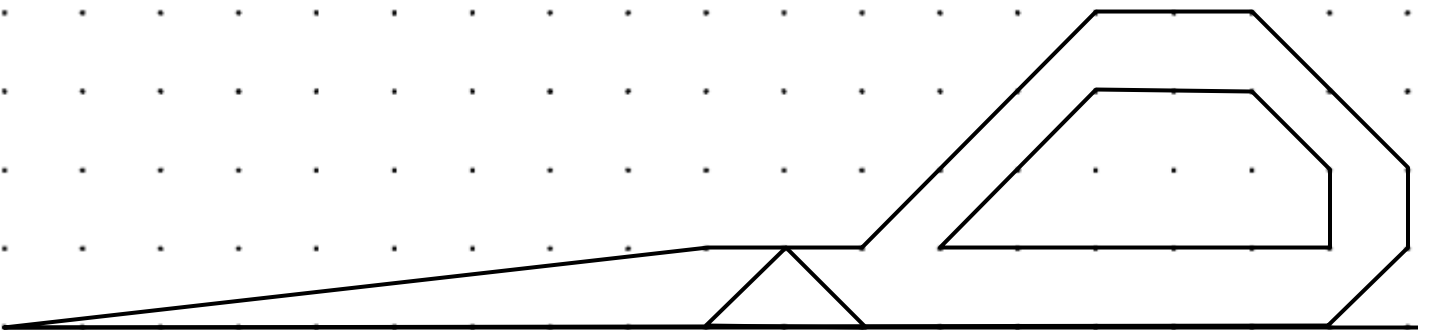
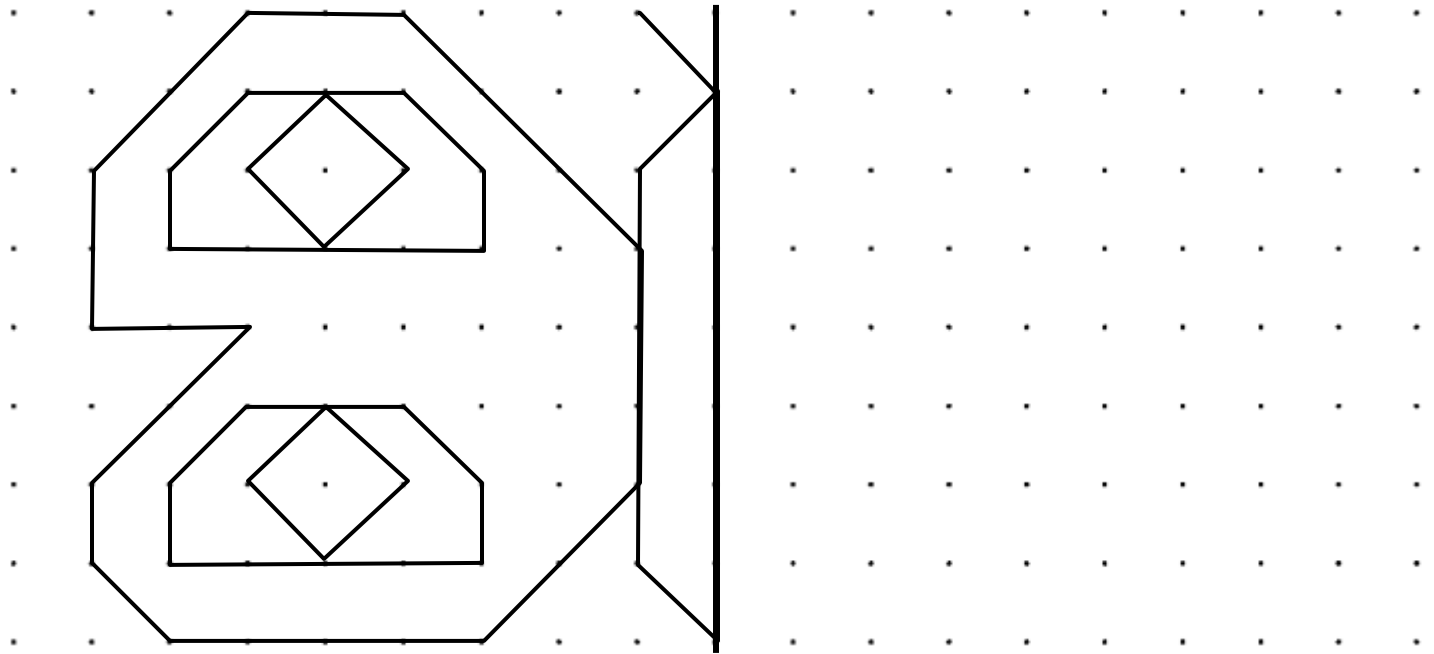
- Can you do it the other way round, from 10 to 1?

10 9 8 7 6 5 4 3 2 1 = 100



LINE SYMMETRY SHEET 6

Complete the missing half of each of the shapes using the mirror lines.



EQUIVALENT FRACTIONS SHEET 3

Remember, when you multiply or divide the numerator and denominator of fraction by the same number, you get a fraction that is equal, or equivalent, to the first one.

Use the equivalent fraction strips resources to help you if you get stuck!

<http://www.math-salamanders.com/fraction-strip.html>



$$1) \frac{1}{3} = \frac{\quad}{6} \quad 2) \frac{1}{4} = \frac{\quad}{12} \quad 3) \frac{1}{3} = \frac{\quad}{9} \quad 4) \frac{1}{2} = \frac{\quad}{12}$$

$$5) \frac{1}{4} = \frac{\quad}{8} \quad 6) \frac{1}{2} = \frac{\quad}{8} \quad 7) \frac{1}{6} = \frac{\quad}{12} \quad 8) \frac{1}{5} = \frac{\quad}{10}$$

$$9) \frac{2}{2} = \frac{\quad}{4} \quad 10) \frac{3}{4} = \frac{\quad}{8} \quad 11) \frac{2}{3} = \frac{\quad}{6} \quad 12) \frac{2}{4} = \frac{\quad}{12}$$

$$13) \frac{2}{3} = \frac{\quad}{9} \quad 14) \frac{4}{6} = \frac{\quad}{12} \quad 15) \frac{3}{5} = \frac{\quad}{10} \quad 16) \frac{3}{4} = \frac{\quad}{12}$$

$$17) \frac{4}{5} = \frac{\quad}{10} \quad 18) \frac{3}{6} = \frac{\quad}{12} \quad 19) \frac{2}{5} = \frac{\quad}{10} \quad 20) \frac{4}{4} = \frac{\quad}{12}$$

$$21) \frac{1}{2} = \frac{4}{\quad} \quad 22) \frac{1}{4} = \frac{3}{\quad} \quad 23) \frac{1}{3} = \frac{3}{\quad} \quad 24) \frac{2}{4} = \frac{4}{\quad}$$

$$25) \frac{1}{2} = \frac{5}{\quad} \quad 26) \frac{3}{4} = \frac{6}{\quad} \quad 27) \frac{2}{3} = \frac{6}{\quad} \quad 28) \frac{3}{4} = \frac{9}{\quad}$$

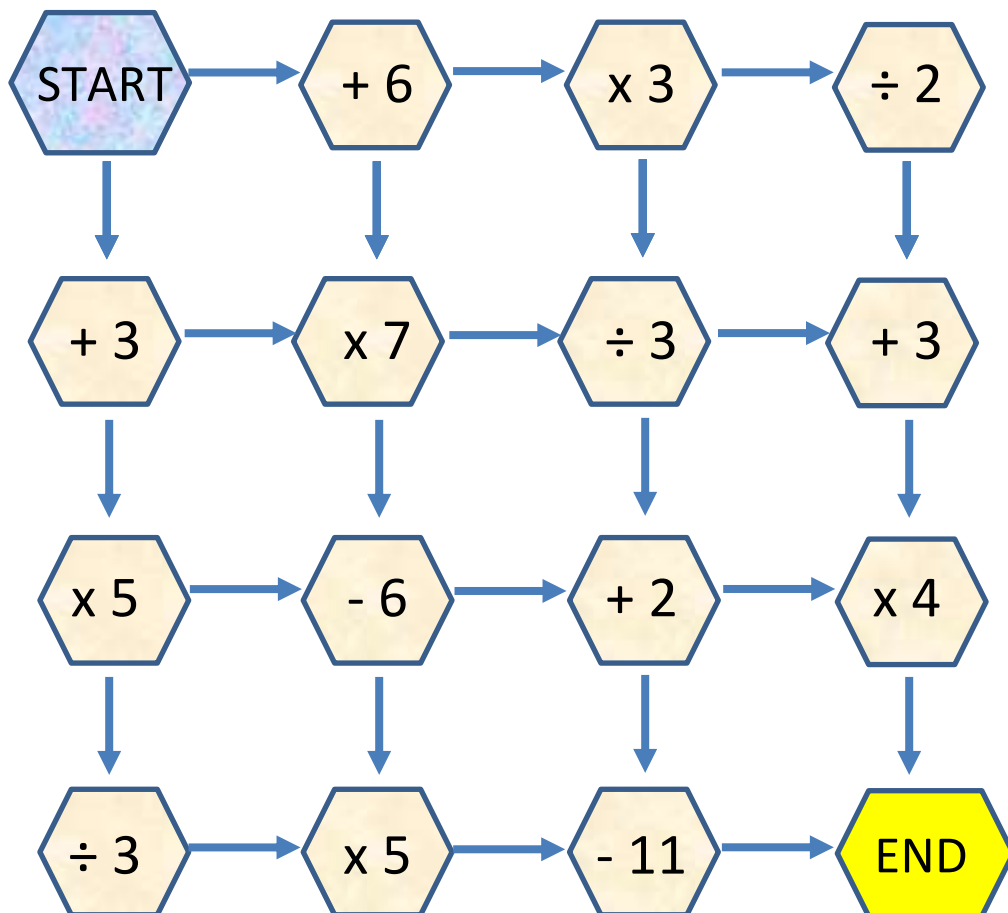
NUMBER MAZE: TARGET 64

Start the maze with zero.

You have to finish the maze with a total of 64.

You must follow one of the arrows each time.

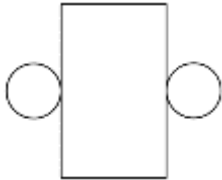

There are two possible routes. Can you find them?



Which route has the highest total?

Which route has the lowest total?

MENTAL MATHS QUIZ 5:3

1)	$2.5 - \underline{\quad} = 1.8$	
2)	Simplify $\frac{10}{40}$	
3)	$72 \div 6$	
4)	What 3d shape does this net make? 	
5)	Find two numbers with a sum of 16 and a difference of 4.	
6)	Which fraction is the smallest? $\frac{3}{5}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{4}{7}$ $\frac{3}{8}$	
7)	What is the value of $3x - 2$ if x is 4?	
8)	What do I need to add to 0.93 to make 1?	
9)	Write down the factors of 18. <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	
10)	What is the probability of rolling an even number on a 6-sided dice? 	
11)	Captain buys a 100g bar of chocolate. He eats $\frac{3}{5}$ of his bar. How many grams of chocolate are left?	g
12)	In a chest there are some gold coins. Captain takes half the coins. Sally takes a quarter of the coins. There are 3 coins left. How many coins were in the chest at the start?	
13)	(1 foot = 12 inches) 38 inches = <u> </u> feet <u> </u> inches	
14)	The side of a regular pentagon is 7cm. What is the perimeter?	cm
15)	$\frac{3}{10} + \frac{2}{5}$	
16)	A calculator costs £3.99. How much are 3 calculators?	\$

2D SHAPE GRABBER v3

The Shape Property game help children to revise their classification of 2d shapes. It is good for developing an understanding of the language associated with 2d shapes, such as acute and obtuse angles, as well as words like 'regular' or 'parallel'. This game is especially good for revision of the properties – children should already be aware of what the properties are before playing the game.

Age Range: Year 5 +

Number of players: 2-3

Learning: Properties of 2d shapes.

You will need

- A dice
- A mirror and protractor (optional)
- A set of 15 counters for each player. Each player will need their own individual colour.

Instructions

- Player 1 rolls the dice and finds out which property they need to match.
- Player 1 then chooses any 2d shape on the board which has this property.
- If they are correct, then they get to place a counter onto this shape. If they are wrong, then they cannot place a counter.
- It is then Player 2's turn.
- The winner is the player who has managed to place the most counters when all the 2d shapes have been covered.

Variations

- *Alternative winning rule* (makes the game shorter): the winner is the first player to place 3 counters in a row (horizontal, vertical or diagonal).

Example of play

- Captain rolls a 2 and needs to choose a shape with an acute angle. He chooses the pink triangle in the second row. This shape does have an acute angle (in fact it has 3 of them) so he gets to place a counter on the shape.
- Sally rolls a 4 and has to choose a shape with a line of symmetry. She chooses the pink hexagon on the bottom row. This shape has a line of symmetry so she gets to place her counter on the shape.
- Captain rolls a 1 and has to choose a regular shape. He chooses the white rhombus on the second row. However this shape is not regular, as the angles are not all the same, so he does not get to place a counter.

2D SHAPE GRABBER v3

1 is a regular shape	2 has an acute angle	3 has a right angle	4 has a line of symmetry	5 has an obtuse angle	6 has parallel lines
--------------------------------	--------------------------------	-------------------------------	------------------------------------	---------------------------------	--------------------------------

