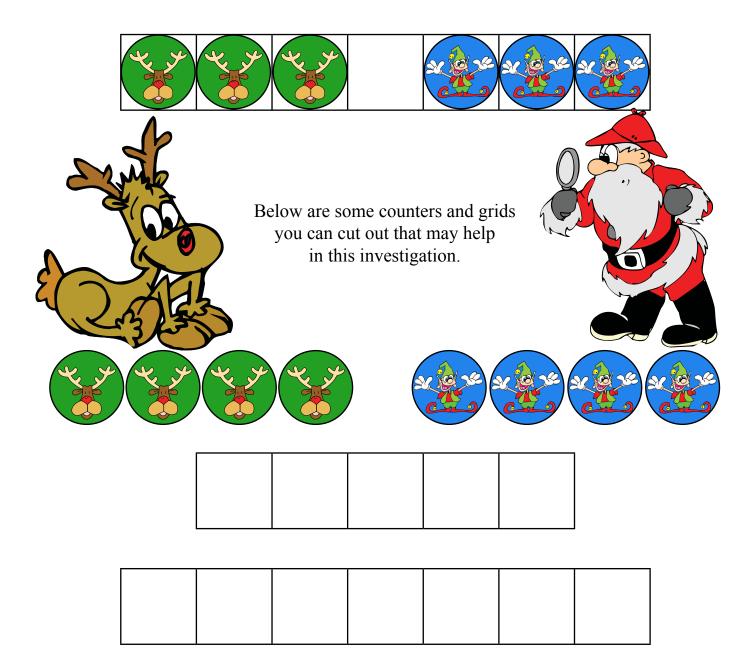
CHRISTMAS CAPERS

"1 - 0.59596 = " said Santa as he ate a small piece of 2000 + 33006 = . He had just finished loading the $3691 \times 125 =$ when $10 + 24 =$ realised he
$3601 \times 125 -$ when $10 + 24 -$ realised he
3091 × 123 - When 10 + 24 - Iteansed he
couldn't $67 \times 5 =$ a single reindeer. He removed his
$896101 \times 6 =$ and shook his head, he was $400 + 406 =$ smacked
"27689 \times 2 =me." he said, "Where can they have gone? If we don't
$60 \div 100 =$ soon we'll never get round all the children tonight."
He grabbed 900 - $386 =$ 2395 + $5343 =$ and rang it loudly.
He waited, and listened, but nothing happened. "Come on boys," he muttered, "or
$1191 \times 3 =$ I'll have to phone the $2 \div 100 =$ and
$319 \times 2 =$ them to send some more reindeer, imagine the size of the
8218 - 500 = $$." Just then came a 8 × 47077 = $$ from behind the
stables. First Santa saw a small pair of $23596 + 33738 =$, then two long
$1879 \times 3 =$, then at last the whole of Rudolph appeared. "Have you been a
the $4001 \times 8 =$?" " $8.5074 \div 11 =$ Santa, of course not. Did
you like our little joke? Don't look so worried. The others are ready, but they are hiding in
a $463 \times 8 =$ 5000 - 386 = in the $6 \times 9619 =$.
He smiled. "They know you're the 9000 - $3492 =$ really."
"Alright, come on it's time to $12 \div 20 =$." said Santa with a
$923 \times 5 =$ of relief. He got out $257 \times 2 =$ list.
"Now, let's see, I've got the right $128.6 \times 25 =$ computer
for $28867 \times 11 =$ and the $637 \div 1000 =$
for Gemma, the bike $16611 \div 3 =$ the
$5738 + 2000 =$ for $3 \times 246017 =$,

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<u>JUMPING ELVES</u>

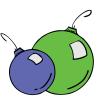
Equal numbers of elves and reindeer face each other. (In this example 3 of each). They have to get to the opposite side of the grid. They can jump over one of the opposing side into an empty space, or slide into an empty space next to them. They can move in no other way. Investigate the least number of moves it takes to swap sides.



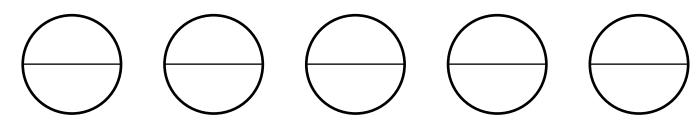
<u>PERMUTATING BAUBLES 1</u>



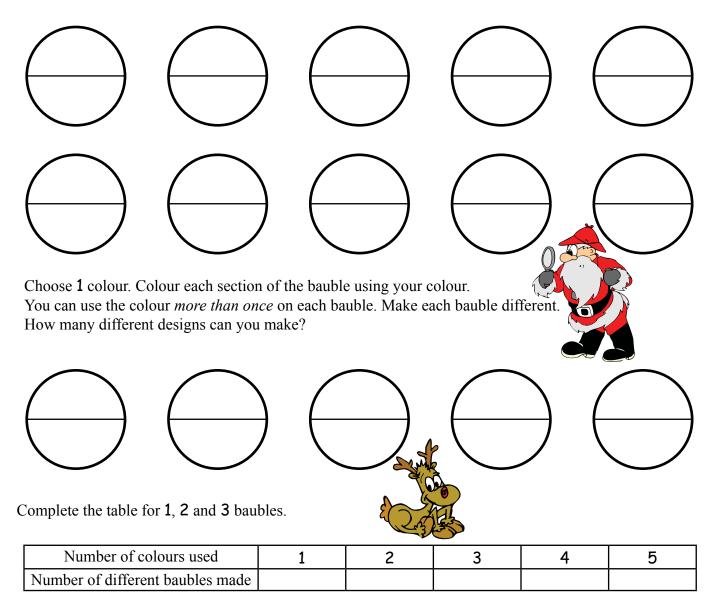
You may not need all the baubles shown for each part of the question.



Choose **2** colours. Colour each section of the bauble using one of your colours. You can use each colour *more than once* on each bauble. Make each bauble different. How many different designs can you make?



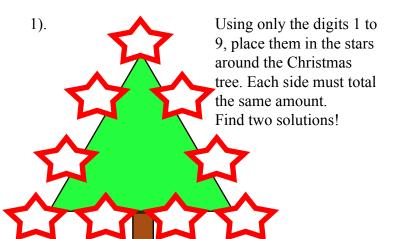
Choose **3** colours. Colour each section of the bauble using one of your colours. You can use each colour *more than once* on each bauble. Make each bauble different. How many different designs can you make?



Predict how many different baubles can be drawn using **4** and **5** different colours. Fill in the table. How could you test these predictions? What is the pattern?

QUIZTMAS QUIZZ

2).



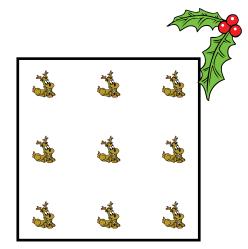
Rudolph creates a Christmas

cross for Santa out of coins.

Show Rudolph how you can

move 1 coin and have a cross

with 4 coins in each row.



Santa needs to create a pen for each reindeer. Draw two squares to create the pens.

4). Santa looks out of his window at Rudolph. He notices the squares in the window.

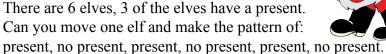
How many different squares are there in the window?

They don't have to be the same size!

5). All the elves are in Sanata's workshop holding a toy. The elves are all of different heights. Santa asks the elves to swap the toys. However, nobody is allowed to swap toys with anyone that is shorter than themself. How many toys are swapped?



3).





8).

7).

Using only the digits 1 to 9, place them in the baubles around the Christmas tree.

The sum on the outside of the tree must be DOUBLE that of the inside triangle.



The presents are on the sleigh and the **35** elves slap each other on the back and give handshakes all around.

If evey elf shakes hands with every other elf, how many handshakes will there be in total?

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