NUMERACY CHALLENGE

ACCESS MATHS

LEVEL 1 LEVEL 2

ACCESS MATHS

NUMERACY CHALLENGE

Christmas Trivia

2,340,000 mph

What is the question?

How many gifts did my true love send to me altogether?

First verse:

On the first day of Christmas,
my true love sent to me
A partridge in a pear tree.

Last verse

On the twelfth day of Christmas,
my true love sent to me
Twelve lords a-leaping, Eleven ladies dancing, Ten pipers piping, Nine drummers drumming, Eight maids a-milking, Seven swans a-swimming, Six geese a-laying, Five golden rings, Four calling birds, Three French hens, Two turtle doves, And a partridge in a pear tree!

There are 12 verses altogether.

LEVEL 1

ACCESS MATHS

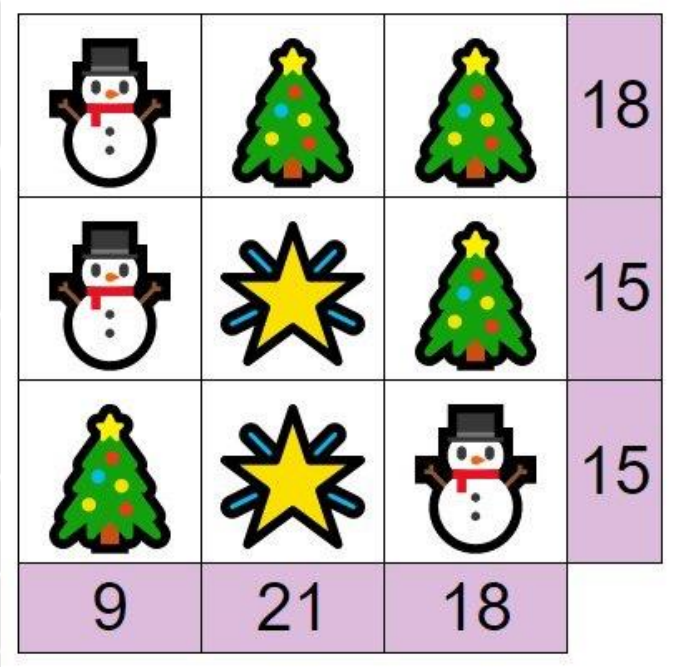
NUMERACY CHALLENGE

Christmas Trivia

£375,000

What is the question?

What are the values of each of the Christmas items?



LEVEL 2

NUMERACY CHALLENGE LEVEL 1

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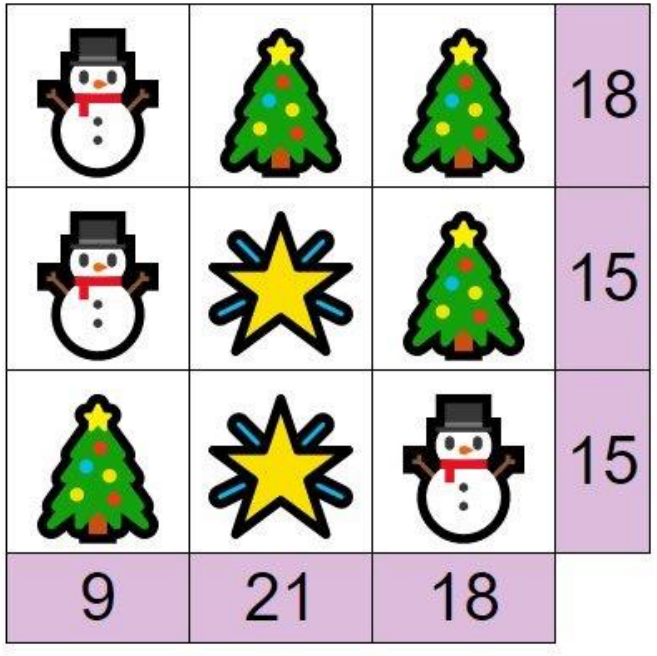

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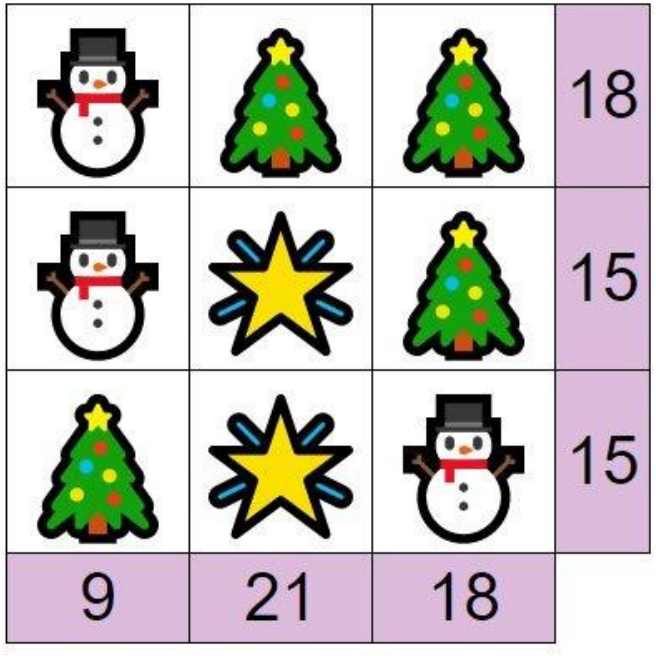


LEVEL 1

One way to interpret the lyrics of this song is that on each new day, all the gifts are given.

This makes the total number of gifts given (counting 12 partridges, 22 turtle doves...) equal to 364. One fewer than the number of days in a year.

There are 376 gifts if you count the pear tree as a separate gift from the partridge that resides in it.

Of the 364 total items, 184 of them are birds.

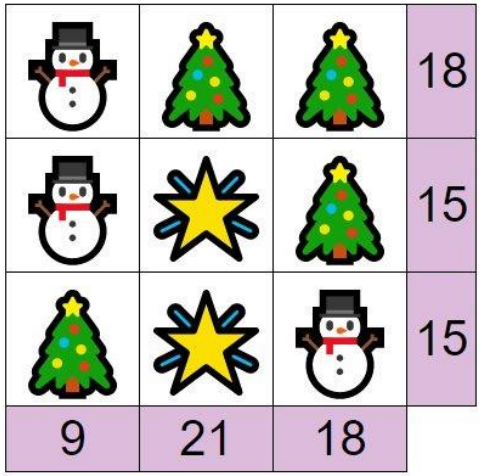
Overall, 364 presents!!

LEVEL 2

What's most interesting about this puzzle is students first steps.

The top row and left column show that swapping out a tree for a snowman halves the total. There are no combinations of numbers that work in these combinations unless the snowman is worth zero!

The snowman is therefore worth 0, meaning the tree is worth 9 and the star is worth 6.



ACCESS MATHS

LEVEL 1

Christmas Trivia

What is the question?

2,340,000

The speed (in miles per hour) that Santa's sleigh has to travel to reach every house in the world on Christmas eve.

LEVEL 2

Christmas Trivia

What is the question?

£375,000

The amount that Mariah Carey makes per year from All I Want For Christmas. The Pogues make about £400,000 from Fairytale of New York and Slade are reckoned to earn £500,000 per year from Merry Christmas Everybody