

a	b	c	d	e	f	g	h	i	j	k	l	m
1	2	3	4	5	6	7	8	9	10	11	12	13
n	o	p	q	r	s	t	u	v	w	x	y	z
14	15	16	17	18	19	20	21	22	23	24	25	26

Use the code above to work out the score for Christmas related words.

For example,

SANTA = 55

s	a	n	t	a
19	1	14	20	1

Try to find a Christmas related word for the following:

- A word with a score of 100
- A word with a score which is a multiple ten
- A word with a score over 120
- A word with a score which can be divided by 4 with no remainder
- A word with a score which is a prime number
- Two words which add up to a multiple of 10
- Two words which add up to 100

Make up your own rule and challenge a friend to find a word to match it.

You could make up your own code too.

a	b	c	d	e	f	g	h	i	j	k	l	m
1	2	3	4	5	6	7	8	9	10	11	12	13
n	o	p	q	r	s	t	u	v	w	x	y	z
14	15	16	17	18	19	20	21	22	23	24	25	26

The code above gives a score for each letter. Your challenge is to make up calculations which gives clues for the letters in a word. You will give this to someone else to solve.

1. Pick a Christmas word
2. Find the score for each letter
3. For each letter, make up a calculation which has the score as the answer
4. Write out the calculation clues on one page
5. Write an answer guide on another page
6. Repeat for at least 5 words
7. Give the first page to a friend to solve
8. Once they are finished, give them the answer page to check

For example, on your first page, write your clues like this:

$4 + 5 + 10$	$7 - 6$	2×7	4×5	1×1
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On your answer guide, write your clues like this:

$4 + 5 + 10$	$7 - 6$	2×7	4×5	1×1
19	1	14	20	1
S	A	N	T	A

ALTERNATIVE CODES

a	b	c	d	e	f	g	h	i	j	k	l	m
1	2	3	1	3	4	6	1	3	5	2	4	5
n	o	p	q	r	s	t	u	v	w	x	y	z
3	5	1	2	4	1	5	2	4	3	2	5	2

a	b	c	d	e	f	g	h	i	j	k	l	m
21	56	48	34	17	25	37	42	19	28	31	46	52
n	o	p	q	r	s	t	u	v	w	x	y	z
33	46	18	26	30	49	55	62	78	12	34	22	46

a	b	c	d	e	f	g	h	i	j	k	l	m
2.1	3.2	4.3	5.1	0.3	1.4	3.6	2.1	4.3	1.5	2.2	5.4	0.5
n	o	p	q	r	s	t	u	v	w	x	y	z
3.3	4.5	2.1	0.2	1.4	5.1	3.5	2.2	0.4	5.3	1.2	2.5	3.2

a	b	c	d	e	f	g	h	i	j	k	l	m
5.4	6.9	1.5	3.7	6.7	9.1	8.2	6.4	5.5	4.6	7.1	9.4	5.1
n	o	p	q	r	s	t	u	v	w	x	y	z
1.4	5.7	9.4	8.1	4.7	5.6	8.4	4.6	7.3	3.4	8.8	9.4	6.6

Christmas Codes

a	b	c	d	e	f	g	h	i	j	k	l	m
n	o	p	q	r	s	t	u	v	w	x	y	z