

**TOP
SECRET**



NEW YEAR CRACK THE CODE MATH





Worksheet 1



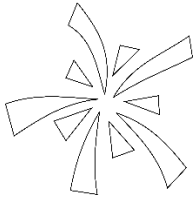
MATH SECRET CODE - DECODER KEY 1



Work out the value each letter represents.

Calculation	Answer
$A = 7 + 18$	A =
$B = 6 \times 8$	B =
$C = 4 \text{ squared}$	C =
$D = 9 \times 7$	D =
$E = 42 \div 7$	E =
$F = 1 \times 2 \times 5 \times 7$	F =
$G = 100 - 34$	G =
$H = 3 \text{ cubed}$	H =
I = double 49	I =
$J = 9 \times 12$	J =
$K = 18 \times 4$	K =
$L = 484 \div 4$	L =
$M = 561 - 387$	M =

Calculation	Answer
$N = 72 \div 3$	N =
$O = 42 \times 0$	O =
$P = 307 - 28$	P =
$Q = 14 \text{ squared}$	Q =
$R = 1 \times 846$	R =
S = half of 934	S =
$T = 116 + 235$	T =
$U = 79 \times 3$	U =
$V = 26 \times 17$	V =
$W = 742 \times 10$	W =
$X = 5 \text{ cubed}$	X =
$Y = 6 \text{ squared}$	Y =
$Z = 2 \times 190$	Z =



Worksheet 2



NEW YEAR SECRET MESSAGE 1

Use Decoder Key 1 to translate this secret message.

351, 27, 98, 467 36, 6, 25, 846 174, 36 846, 6, 467, 0, 121, 237, 351, 98, 0, 24

98, 467 351, 0 121, 6, 25, 846, 24 174, 0, 846, 6 174, 25, 351, 27

351, 27, 6 70, 98, 846, 467, 351 70, 98, 442, 6 279, 846, 98, 174, 6

24, 237, 174, 48, 6, 846, 467 25, 846, 6

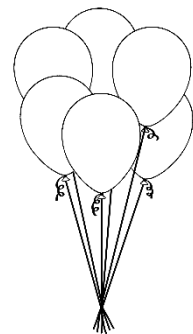
25 27, 6, 125, 25, 66, 0, 24 27, 25, 467 467, 98, 63, 6, 467

25 467, 279, 27, 6, 846, 6 121, 0, 0, 72, 467 121, 98, 72, 6 351, 27, 98, 467

25, 24, 63 351, 27, 6 174, 237, 121, 351, 98, 279, 121, 6, 467 0, 70

24, 98, 24, 6 25, 846, 6

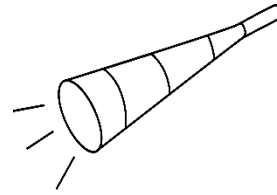
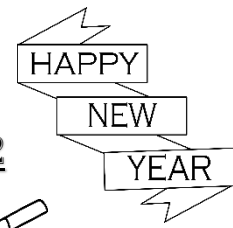
27, 25, 279, 279, 36 24, 6, 7420 36, 6, 25, 846!





Worksheet 3

MATH SECRET CODE - DECODER KEY 2



Work out the value each letter represents.

Calculation	Answer
$A = 13 + 19$	$A =$
$B = 7 \times 8$	$B =$
$C = 3 \text{ squared}$	$C =$
$D = 11 \times 7$	$D =$
$E = 63 \div 9$	$E =$
$F = 2 \times 8 \times 3$	$F =$
$G = 100 - 77$	$G =$
$H = 2 \text{ cubed}$	$H =$
$I = \text{double } 29$	$I =$
$J = 7 \times 13$	$J =$
$K = 19 \times 5$	$K =$
$L = 969 \div 3$	$L =$
$M = 621 - 482$	$M =$

Calculation	Answer
$N = 78 \div 3$	$N =$
$O = 209 - 16$	$O =$
$P = 15 \text{ squared}$	$P =$
$Q = 51 \times 0$	$Q =$
$R = 1 \times 1$	$R =$
$S = \text{half of } 752$	$S =$
$T = 263 + 159$	$T =$
$U = 87 \times 3$	$U =$
$V = 25 \times 18$	$V =$
$W = 391 \times 10$	$W =$
$X = 4 \text{ cubed}$	$X =$
$Y = 9 \text{ squared}$	$Y =$
$Z = 3 \times 145$	$Z =$

Worksheet 4



NEW YEAR SECRET MESSAGE 2

Use Decoder Key 2 to translate this secret message.

422, 8, 7 81, 7, 32, 1 58, 376 422, 3910, 7, 26, 422, 81

3910, 58, 376, 8, 58, 26, 23 81, 193, 261 32 450, 7, 1, 81

8, 32, 225, 225, 81 26, 7, 3910 81, 7, 32, 1!

81, 193, 261, 1 139, 32, 422, 8 0, 261, 7, 376, 422, 58, 193, 26, 376 32, 1, 7:

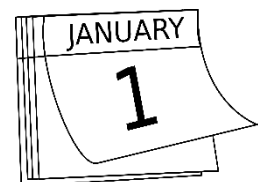
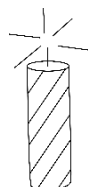
8, 193, 3910 139, 32, 26, 81 376, 7, 9, 193, 26, 77, 376 32, 1, 7 422, 8, 7, 1, 7

58, 26 32 3910, 8, 193, 323, 7 81, 7, 32, 1?

32, 24, 77 8, 193, 3910 139, 32, 26, 81 77, 32, 81, 376 32, 1, 7

422, 8, 7, 1, 7 48, 1, 193, 139 26, 7, 3910 81, 7, 32, 1, 376 77, 32, 81

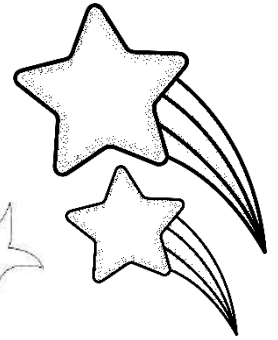
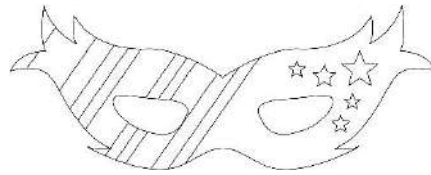
261, 26, 422, 58, 323 9, 8, 1, 58, 376, 422, 139, 32, 376 77, 32, 81?





Worksheet 5

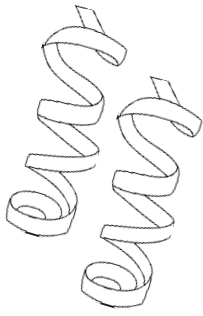
MATH SECRET CODE - DECODER KEY 3



Work out the value each letter represents.

Calculation	Answer
$A = 16 + 17$	A =
$B = 9 \times 8$	B =
$C = 5 \text{ squared}$	C =
$D = 12 \times 7$	D =
$E = 56 \div 8$	E =
$F = 1 \times 3 \times 5 \times 2$	F =
$G = 100 - 48$	G =
$H = 1 \text{ cubed}$	H =
$I = \text{double } 38$	I =
$J = 8 \times 14$	J =
$K = 17 \times 6$	K =
$L = 864 \div 2$	L =
$M = 732 - 458$	M =

Calculation	Answer
$N = 84 \div 3$	N =
$O = 16 \text{ squared}$	O =
$P = 98 \times 0$	P =
$Q = 406 - 27$	Q =
$R = 1 \times 350$	R =
$S = \text{half of } 596$	S =
$T = 344 + 179$	T =
$U = 98 \times 3$	U =
$V = 27 \times 14$	V =
$W = 294 \times 10$	W =
$X = 6 \text{ cubed}$	X =
$Y = 7 \text{ squared}$	Y =
$Z = 4 \times 176$	Z =



Worksheet 6



NEW YEAR SECRET MESSAGE 3

Use Decoder Key 3 to translate this secret message.

523, 1, 7 28, 7, 2940 49, 7, 33, 350 72, 7, 52, 76, 28, 298 256, 28

523, 1, 7 256, 30 112, 33, 28, 294, 33, 350, 49.

523, 1, 7 30, 76, 350, 298, 523 0, 350, 76, 274, 7

28, 294, 274, 72, 7, 350 76, 298

523, 1, 7 30, 76, 350, 298, 523 274, 294, 432, 523, 76, 0, 432, 7 256, 30

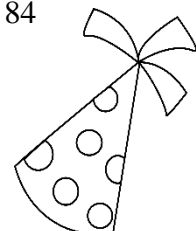
523, 1, 350, 7, 7 33, 30, 523, 7, 350 256, 28, 7 1, 294, 28, 84, 350, 7, 84

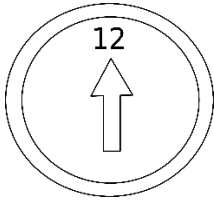
76, 298

76 33, 274 523, 1, 76, 28, 102, 76, 28, 52 256, 30 523, 1, 350, 7, 7

28, 294, 274, 72, 7, 350, 298. 523, 1, 7 30, 76, 350, 298, 523 76, 298

523, 2940, 76, 25, 7 523, 1, 7 298, 7, 25, 256, 28, 84 33, 28, 84





Worksheet 7



NEW YEAR SECRET MESSAGE 3

Use Decoder Key 3 to translate this secret message.

523, 1, 7 523, 1, 76, 350, 84 76, 298 523, 2940, 76, 25, 7 523, 1, 7

30, 76, 350, 298, 523. 523, 1, 7 298, 294, 274 256, 30 33, 432, 432

523, 1, 350, 7, 7 28, 294, 274, 72, 7, 350, 298 76, 298 523, 2940, 256

1, 294, 28, 84, 350, 7, 84 33, 28, 84 523, 1, 350, 7, 7. 2940, 1, 33, 523

33, 350, 7 274, 49 523, 1, 350, 7, 7 28, 294, 274, 72, 7, 350, 298?

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SECRET CODE - **ANSWERS** FOR EACH ALPHABET LETTER

Secret Code 1

A = 25

B = 48

C = 16

D = 63

E = 6

F = 70

G = 66

H = 27

I = 98

J = 108

K = 72

L = 121

M = 174

N = 24

O = 0

P = 279

Q = 196

R = 846

S = 467

T = 351

U = 237

V = 442

W = 7420

X = 125

Y = 36

Z = 380

Secret Code 2

A = 32

B = 56

C = 9

D = 77

E = 7

F = 48

G = 23

H = 8

I = 58

J = 91

K = 95

L = 323

M = 139

N = 26

O = 193

P = 225

Q = 0

R = 1

S = 376

T = 422

U = 261

V = 450

W = 3910

X = 64

Y = 81

Z = 435

Secret Code 3

A = 33

B = 72

C = 25

D = 84

E = 7

F = 30

G = 52

H = 1

I = 76

J = 112

K = 102

L = 432

M = 274

N = 28

O = 256

P = 0

Q = 379

R = 350

S = 298

T = 523

U = 294

V = 378

W = 2940

X = 216

Y = 49

Z = 704

SECRET MESSAGE 1 - ANSWERS

351, 27, 98, 467 36, 6, 25, 846 174, 36 846, 6, 467, 0, 121, 237, 351, 98, 0, 24
THIS YEAR MY RESOLUTION

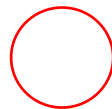
98, 467 351, 0 121, 6, 25, 846, 24 174, 0, 846, 6 174, 25, 351, 27
IS TO LEARN MORE MATH

351, 27, 6 70, 98, 846, 467, 351 70, 98, 442, 6 279, 846, 98, 174, 6
THE FIRST FIVE PRIME

24, 237, 174, 48, 6, 846, 467 25, 846, 6
NUMBERS ARE 2, 3, 5, 7, 11

25 27, 6, 125, 25, 66, 0, 24 27, 25, 467 467, 98, 63, 6, 467
A HEXAGON HAS 6 SIDES

25 467, 279, 27, 6, 846, 6 121, 0, 0, 72, 467 121, 98, 72, 6 351, 27, 98, 467
A SPHERE LOOKS LIKE THIS



25, 24, 63 351, 27, 6 174, 237, 121, 351, 98, 279, 121, 6, 467 0, 70
AND THE MULTIPLES OF

24, 98, 24, 6 25, 846, 6
NINE ARE 9. 18. 27, 36, 45, 54,

27, 25, 279, 279, 36 24, 6, 7420 36, 6, 25, 846!
HAPPY NEW YEAR!

SECRET MESSAGE 2 - ANSWERS

422, 8, 7 81, 7, 32, 1 58, 376 422, 3910, 7, 26, 422, 81

THE YEAR IS TWENTY 25

3910, 58, 376, 8, 58, 26, 23 81, 193, 261 32 450, 7, 1, 81

WISHING YOU A VERY

8, 32, 225, 225, 81 26, 7, 3910 81, 7, 32, 1!

HAPPY NEW YEAR!

81, 193, 261, 1 139, 32, 422, 8 0, 261, 7, 376, 422, 58, 193, 26, 376 32, 1, 7:

YOUR MATH QUESTIONS ARE:

8, 193, 3910 139, 32, 26, 81 376, 7, 9, 193, 26, 77, 376 32, 1, 7 422, 8, 7, 1, 7

HOW MANY SECONDS ARE THERE

58, 26 32 3910, 8, 193, 323, 7 81, 7, 32, 1?

IN A WHOLE YEAR? 31536000 seconds

32, 24, 77 8, 193, 3910 139, 32, 26, 81 77, 32, 81, 376 32, 1, 7

AND HOW MANY DAYS ARE

422, 8, 7, 1, 7 48, 1, 193, 139 26, 7, 3910 81, 7, 32, 1, 376 77, 32, 81

THERE FROM NEW YEAR'S DAY

261, 26, 422, 58, 323 9, 8, 1, 58, 376, 422, 139, 32, 376 77, 32, 81?

UNTIL CHRISTMAS DAY? 359 days

(Including New Year's Day and Christmas Day)

SECRET MESSAGE 3 - ANSWERS

523, 1, 7 28, 7, 2940 49, 7, 33, 350 72, 7, 52, 76, 28, 298 256, 28
THE NEW YEAR BEGINS ON

523, 1, 7 256, 30 112, 33, 28, 294, 33, 350, 49.
THE FIRST OF JANUARY.

523, 1, 7 30, 76, 350, 298, 523 0, 350, 76, 274, 7
THE FIRST PRIME

28, 294, 274, 72, 7, 350 76, 298
NUMBER IS 2.

523, 1, 7 30, 76, 350, 298, 523 274, 294, 432, 523, 76, 0, 432, 7 256, 30
THE FIRST MULTIPLE OF

523, 1, 350, 7, 7 33, 30, 523, 7, 350 256, 28, 7 1, 294, 28, 84, 350, 7, 84
THREE AFTER ONE HUNDRED

76, 298
IS 102.

76 33, 274 523, 1, 76, 28, 102, 76, 28, 52 256, 30 523, 1, 350, 7, 7
I AM THINKING OF THREE

28, 294, 274, 72, 7, 350, 298. 523, 1, 7 30, 76, 350, 298, 523 76, 298
NUMBERS THE FIRST IS

523, 2940, 76, 25, 7 523, 1, 7 298, 7, 25, 256, 28, 84 33, 28, 84
TWICE THE SECOND AND

SECRET MESSAGE 3 - ANSWERS

523, 1, 7 523, 1, 76, 350, 84 76, 298 523, 2940, 76, 25, 7 523, 1, 7
THE THIRD IS TWICE THE

30, 76, 350, 298, 523. 523, 1, 7 298, 294, 274 256, 30 33, 432, 432
FIRST. THE SUM OF ALL

523, 1, 350, 7, 7 28, 294, 274, 72, 7, 350, 298 76, 298 523, 2940, 256
THREE NUMBERS IS TWO

1, 294, 28, 84, 350, 7, 84 33, 28, 84 523, 1, 350, 7, 7. 2940, 1, 33, 523
HUNDRED AND THREE. WHAT

33, 350, 7 274, 49 523, 1, 350, 7, 7 28, 294, 274, 72, 7, 350, 298?
ARE MY THREE NUMBERS?

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58 29 116