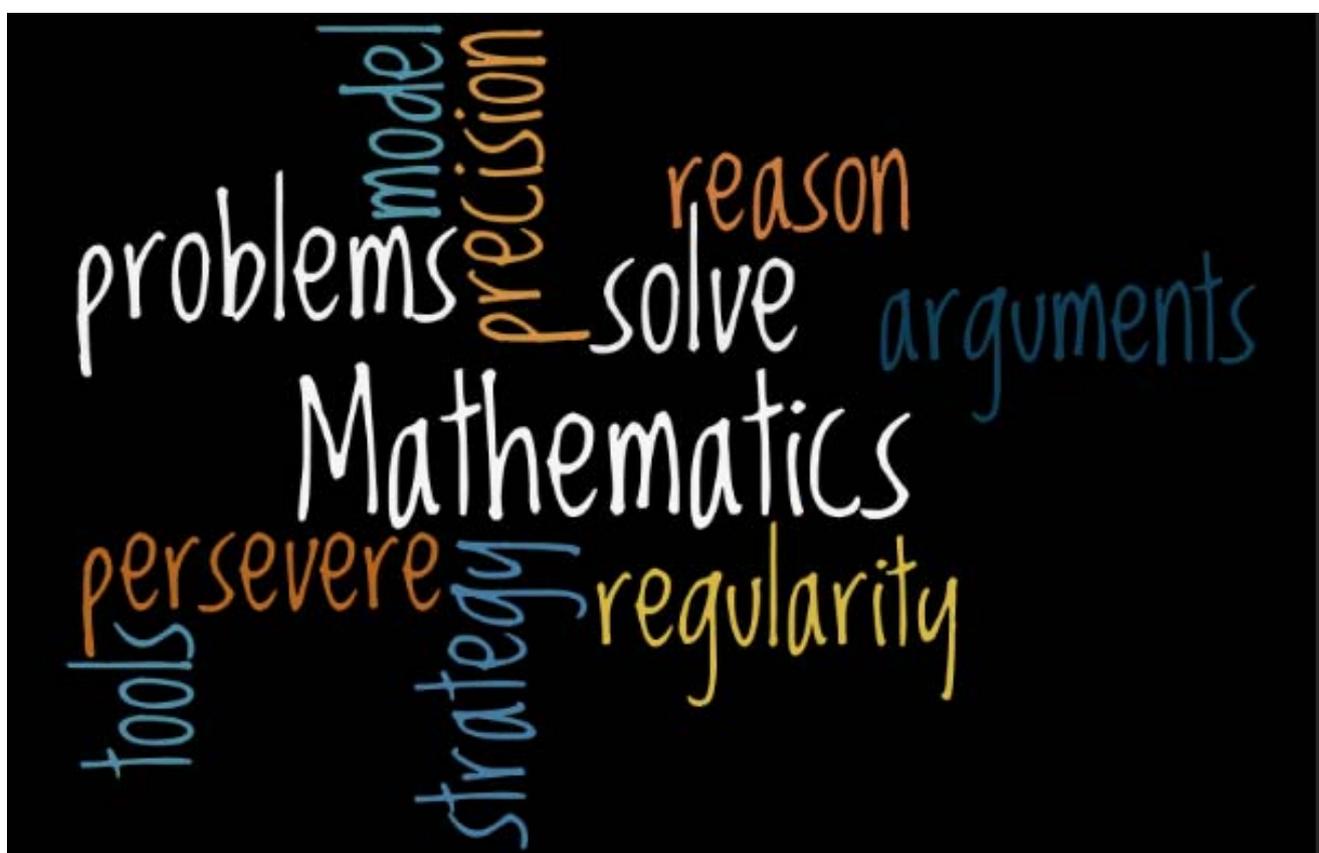
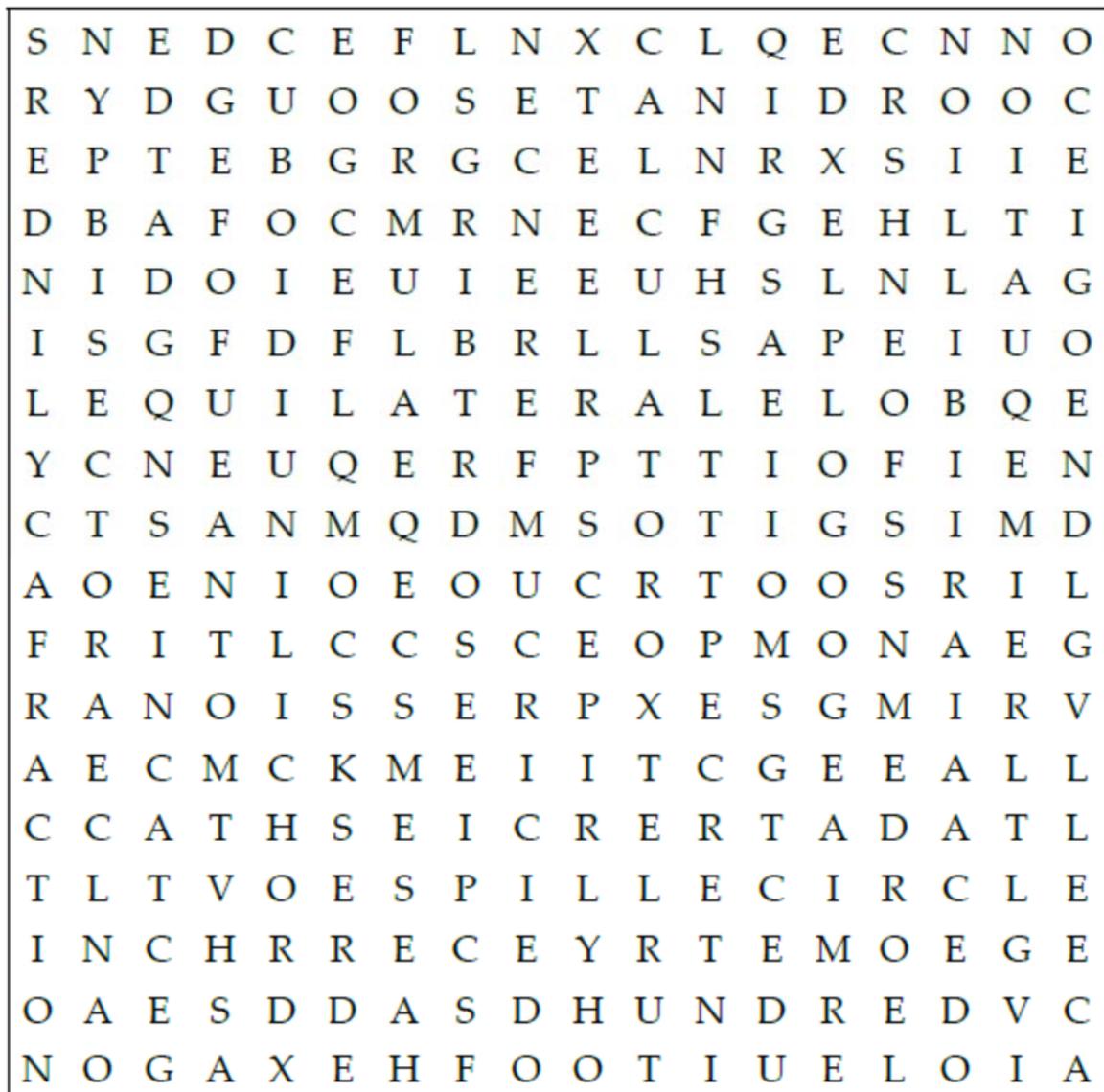


# The wonder of maths



We are sorry that we can't all meet you in person before you start with us. But we're super excited to meet you when get to us. In the meantime, here are a few fun activities we'd like you to have a go. We'd love you to bring it with you on your first day at Colton Hills.

# Find us a word!



Can you find all of the maths key words below?

ANGLE	COORDINATES	FACTOR	HEXAGON
AVERAGE	CORRELATION	FIFTY	HUNDRED
BILLION	CUBE	FOOT	INCH
BISECTOR	CUBOID	FORMULA	INTERCEPT
CALCULATOR	CYLINDER	FRACTION	ISOMETRIC
CENTIMETRE	DECIMAL	FREQUENCY	ISOSCELES
CHORD	DIAMETER	GEOMETRY	KITE
CIRCLE	ELLIPSE	GOOGOL	LINE
CIRCUMFERENCE	EQUATION	GOOGOLPLEX	LITRE
COMPASSES	EQUILATERAL	GRADIENT	
CONE	EXPRESSION	HALF	

# Show us what you know!

## Key Skills 1.

When you get to a page like this it would be brilliant if you could spend 15 minutes answering as many questions as possible without using a calculator. Use the space below to try working them out.

Question 1 Round 14659 to the nearest 10	Question 2 Round 6611 to the nearest 100	Question 3 What is 3000 more than 3943?	Question 4 What is 300 more than 2684?
Question 5 Express 0.2 as a fraction	Question 6 Express 0.61 as a fraction	Question 7 Work out $70 \div 10 =$	Question 8 Work out $1400 \div 100 =$
Question 9 Round 60.63 to the nearest integer	Question 10 Round 3.09 to the nearest integer	Question 11 List the factors of 74	Question 12 What is the 9th multiple of 13?
Question 13 Work out $651 \div 7 =$	Question 14 Work out $541 \times 6 =$	Question 15 Complete using $< = >$ $\frac{2}{6}$ $\frac{2}{5}$	Question 16 Complete using $< = >$ $\frac{3}{4}$ $\frac{1}{3}$
Question 17 Express as a mixed number $\frac{14}{5} =$	Question 18 Express as a mixed number $\frac{16}{6} =$	Question 19 Express 89% as a fraction	Question 20 Express 22% as a fraction

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# What's the number?

Use the 100 grid and the clues below. Cross out all the numbers the clues rule out and find the missing number.

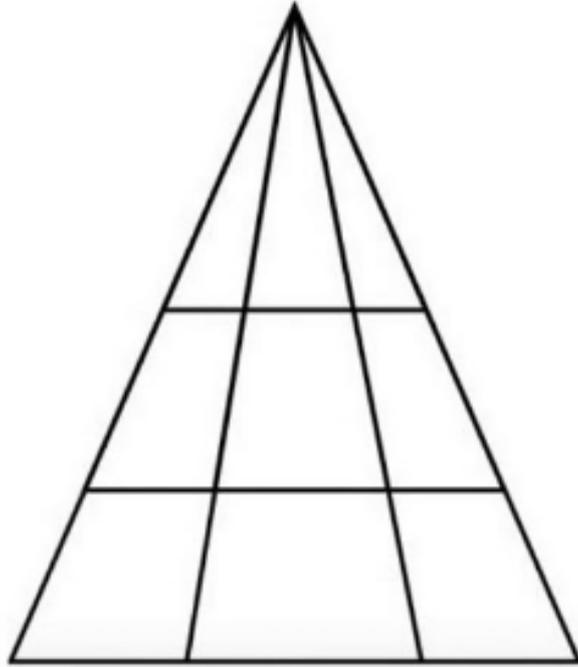
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Use the information below to work out which number is the only correct answer.

1. The number is between 1 and 99.
2. The number is a multiple of 3.
3. The sum of the digits is 6. (For example 13 has a digit sum of  $1 + 3 = 4$ ).
4. It is more than 5 squared.
5. One of the digits is a 2.
6. It is less than 55.
7. It is not a square number.

# How many triangles?

How many triangles are there in the shape below?  
(Hint: There are more than you think, try looking at the triangles formed by each line).



You may wish to use this space below to sketch some of the triangles you can see, and make sure you aren't missing any.



# Colour us a picture

Try to answer as many as you can without a calculator.

Work out the answers to the calculations in the diagram and colour according to the answers using the key provided below.

## Key

Colour	Range
Red	0-9
Blue	10-19
Black	20-29
Yellow	30-39
Brown	40-49
Beige (pale pink)	50-59
Green	60 & over