Bronze

1a. Match the number to its multiple.

Number	Multiple
10	24
3	15
2	60

VF

2a. True or false?

28 is a multiple of 5.

VF

3a. Complete the sequence of multiples.

6 ☐ 10 12 ☐ 16 ☐

VF

4a. Fill in the table below with two possible multiples for each number.

Number	Multiples	
3		
2		
10		
5		

1b. Greg is thinking of a number.

My number is a multiple of 3. It is even and between 20 and 30.

What could his number be?

Is there only one answer?

PS

2b. Below is a section of a hundred square.

(15)	16	17	18
(25)	26	27	28
(35)	36	37	38

Why are some of the numbers shaded? Why do some of the numbers have circles around them?

R

3b. Which is the odd one out?

30 15 35 25 40 54 60

Explain how you know.

Silver

5a. Match the number to its multiple.

Number	Multiple
6	27
8	36
9	32

VF

6a. True or false?

81 is a multiple of 8.

VF

7a. Complete the sequence of multiples.

42 ☐ 56 63 ☐ ☐ ☐

VF

8a. Fill in the table below with two possible multiples for each number.

Number	Multiples	
7		
9		
12		
6		

4b. Alex is thinking of a number.

My number is a multiple of 11 and 2. It is even and between 20 and 50.

What could his number be?

Is there only one answer?

PS

5b. Below is a section of a hundred square.

62	63	64
72	73	74
82	83	84

Why are some of the numbers shaded? Why do some of the numbers have circles around them?

R

6b. Which is the odd one out?

64 12 16 32 40 58 72

Explain how you know.

Gold

9a. Match the number to its multiple.

Number	Multiple
6	78
8	98
7	104

VF

10a. True or false?

156 is a multiple of 12.

VF

11a. Complete the sequence of multiples.

90 ☐ 108 ☐ ☐ 135 ☐

VF

12a. Fill in the table below.

Number	x 13	x 14
7		
9		
12		
6		

7b. Monty is thinking of a number.

My number is a multiple of 11 and 7. It is even and between 130 and 160.

What could his number be?

Is there only one answer?

PS

8b. Below is a section of a hundred square.

96	97	98
106	107	108
116	117	118

Why are some of the numbers shaded? Why do some of the numbers have circles around them?

R

9b. Which is the odd one out?

98, 63, 77, 21, 84, 70, 92

Explain how you know.

Challenge

1. Look at the numbers below.

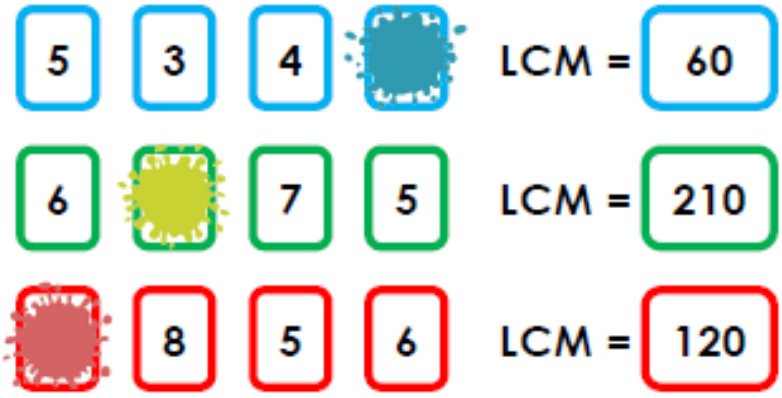
Which numbers in the grid below are multiples of all the numbers above?

401	402	403	404	405	406	407	408	409	410
411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430
431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459	460
461	462	463	464	465	466	467	468	469	470
471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490
491	492	493	494	495	496	497	498	499	500

Investigate how your answer might change if 5 was swapped with 6, 7, 8 or 9.

2. Harriet has these digit cards:

Harriet also has the list of numbers below and their lowest common multiples (LCM). She needs to add a digit card to each list so that the lowest common multiples remain unchanged. Investigate which digit cards she could use.



What is the lowest common multiple of the digit cards Harriet does not use?